

TOSHIBA

FILE NO. 030-9825

SERVICE MANUAL

COLOUR TELEVISION

C7SS Chassis

28W8DB

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SET-UP ADJUSTMENT

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

- * There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Demagnetize the picture tube and cabinet using a degaussing coil.
2. Set the brightness and contrast to maximum.
3. Use a green raster from among the built-in test signals.
4. Loosen the clamp screw holding the yoke and slide the yoke backward or forward to provide vertical green belt (zone) in the picture screen.
5. Remove the Rubber Wedges.
6. Rotate and spread the tabs of the purity magnet (See figure 2.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, enter the raster vertically.
7. Slowly move the yoke forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster.

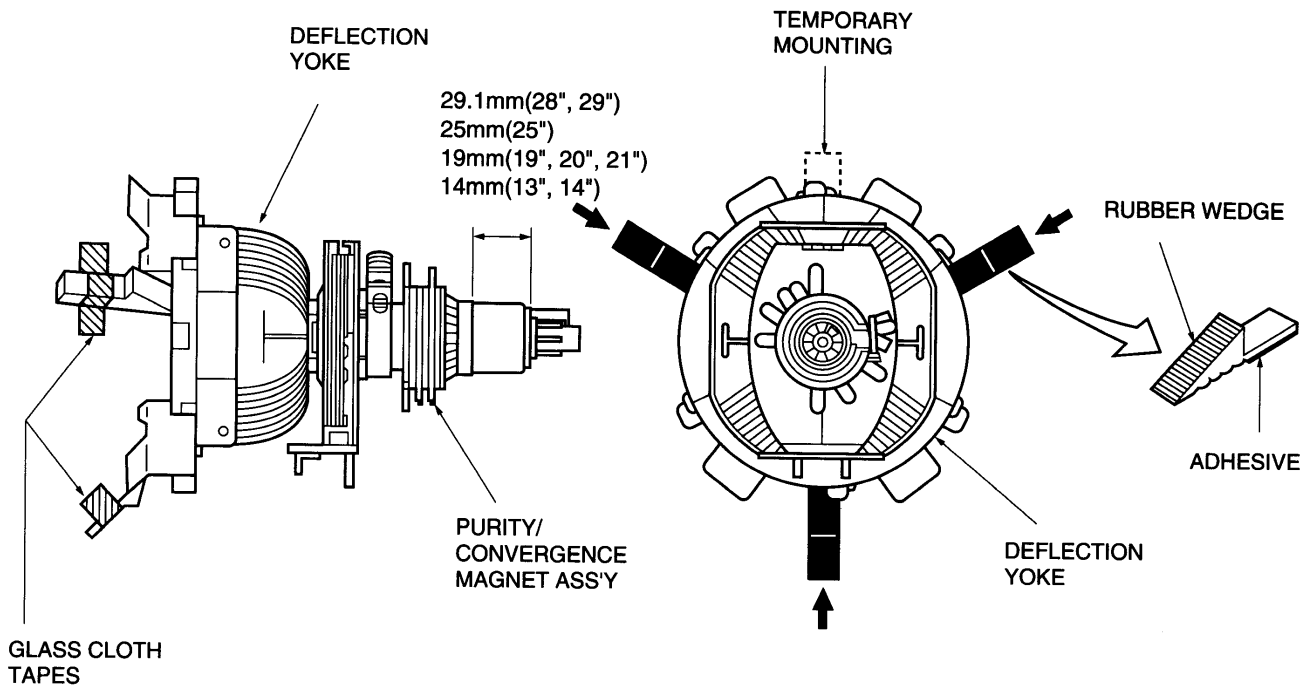


Figure 1.

CONVERGENCE ADJUSTMENTS

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ CENTER CONVERGENCE ADJUSTMENT

1. Use the cross-dot pattern from among the built-in test signals.
2. Set the brightness and contrast for well defined pattern.
3. Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 2.) and superimpose red and blue vertical lines in the center area of the picture screen.
4. Turn the both tabs at the same time keeping the angle constant to superimpose red and blue horizontal lines at the center of the screen.
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line and green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole Magnets have mutual interaction and make dot movement complex.

■ CIRCUMFERENCE CONVERGENCE ADJUSTMENT

1. Loosen the clamping screw of deflection yoke slightly to allow the yoke to tilt.
2. Temporarily put a wedge as shown in figure 1. (Do not remove cover paper on adhesive part of the wedge.)
3. Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See figure 3.) Push the mounted wedge into the space between picture tube and the yoke to fix the yoke temporarily.
4. Put other wedge into bottom space and remove the cover paper to stick.
5. Tilt front of the yoke right or left to obtain better convergence in circumference. (See figure 3.)
6. Keep the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedge on picture tube to fix the yoke.
7. Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
8. After fixing three wedges, recheck overall convergence. Tighten the screw firmly to fix the yoke and check the yoke is firm.
9. Stick three adhesive tapes on wedges as shown in figure 1.

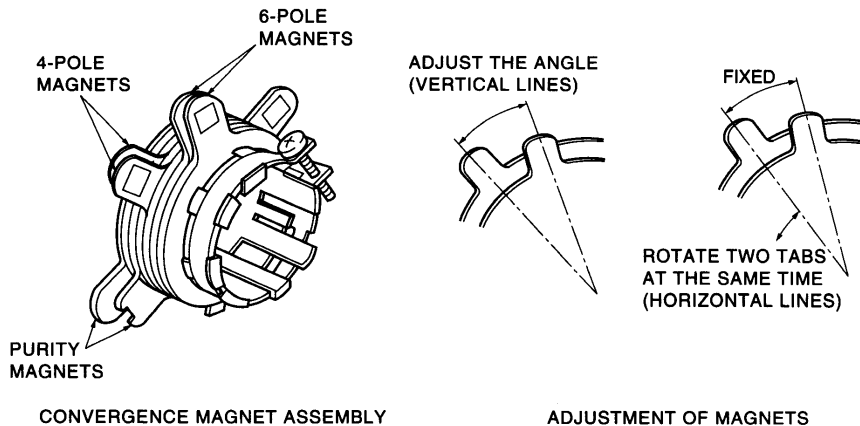
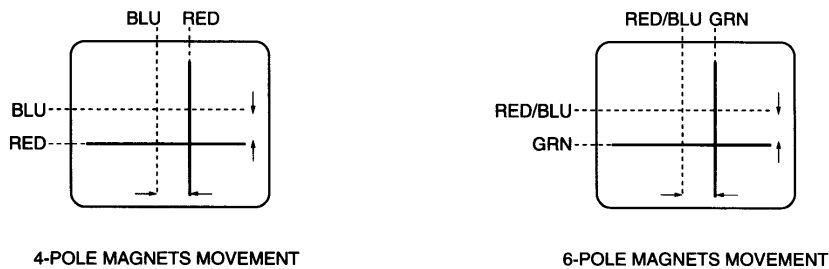
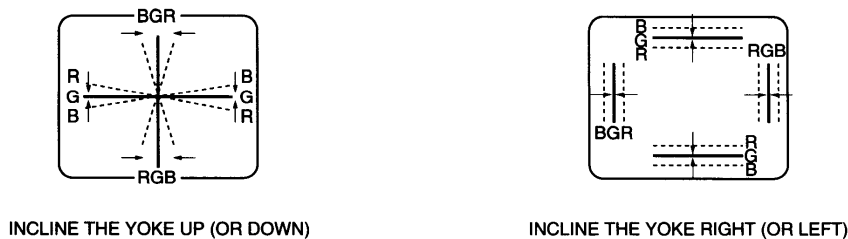


Figure 2.



Center Convergence by Convergence Magnets



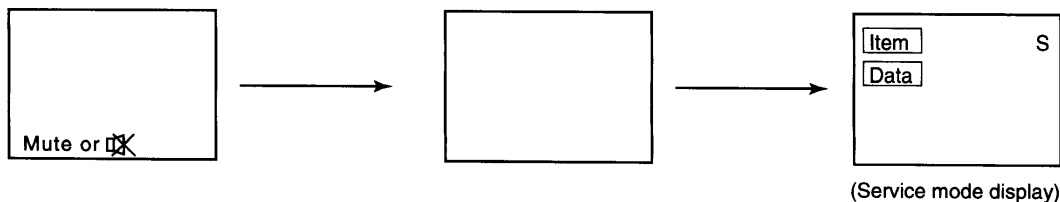
Circumference Convergence by DEF Yoke

Figure 3. Dot Movement Pattern

SERVICE MODE

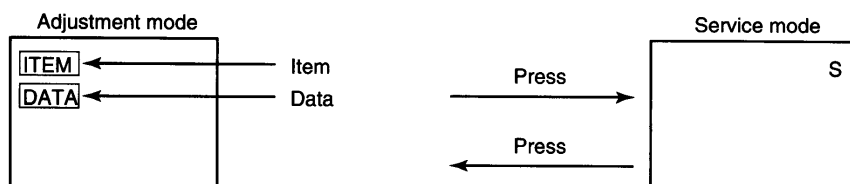
1. ENTERING TO SERVICE MODE

- 1) Press  button once on Remote Control.
- 2) Press  button again to keep pressing.
- 3) While pressing the  button, press MENU button on TV set.



2. DISPLAYING THE ADJUSTMENT MENU

- 1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:

Test signal selection :

Selection of the adjustment items :

Change of the data value :

Adjustment menu mode ON/OFF :

Initialization of the memory (QA02) :
Reset the count of operating protect
circuit to "00":

"RCUT" selection :

"GCUT" selection :

"BCUT" selection :

"CNTX" (or "SCNT") selection :

"COLC" selection :

"TNTC" selection :

Test audio signal ON/OFF (1kHz) :

Self diagnostic display ON/OFF :

- / - - button (on Remote) or  button (on TV)

 button (on Remote)

Channel  /  (on TV & Remote)

Volume  +/- (on TV & Remote)

MENU button (on TV)

CALL + Channel button on TV ()

CALL + Channel button on TV ()

1 button

2 button

3 button

4 button

5 button - - - - Color thickness correction

6 button

8 button

9 button

note: Displayed differently as shown below, depending on the setting of the receiving color system.

COLP (PAL)

COLC (NTSC)

COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

- 1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2.
(▼ button for reverse order)

Enter to adjust or preset data of adjustment mode.
Pressing ▲ ADJUSTING DATA on page 14)

5. ADJUSTING THE DATA

- 1) Pressing of VOLUME ▲/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

- 1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been completed.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
Perform "Auto search Memory" on the owner's manual.

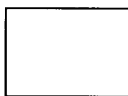
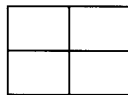
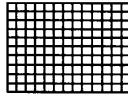
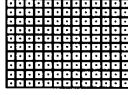
CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

- 1) Every pressing of –⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

Signal off —→ NTSC signals (14 patterns)

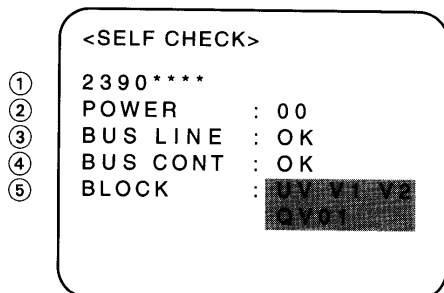
↑ PAL signals (14 patterns) ←

Signals	Picture
• Red raster • Green raster • Blue raster • All Black • All White	
• Black & White	
• Black cross-bar • White cross-bar • Black cross-bar on green raster	
• Black cross-hatch • White cross-hatch	
• Black cross-dot • White cross-dot	
• H signal (white) • H signal (black)	

* The signals marked with ■ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

- 1) Press "9" button on Remote Control during display of adjustment menu in the service mode.
The diagnosis will begin to check if interface among IC's are executed properly.
- 2) During diagnosis, the following displays are shown.



- ① Part number of microcomputer (QA01)
- ② Operation number of protecting circuit ----"00" is normal.
When indication is other than "00", overcurrent apt to flow, and circuit parts may possibly be damaged.
- ③ BUS LINE CHECK ----"OK" is normal.
"SDA1-GND" ----- SDA-GND short circuit.
"SCL1-GND" ----- SCL-GND short circuit.
"SCL1-SDA1" ----- SCL-SDA short circuit.
- ④ BUS CONT ----"OK" is normal.
When indication shows "Q○○○ NG", the device with the number may possibly be damaged.

⑤ BLOCK

UV : TV reception mode

V1 : VIDEO 1 input mode (-Q1)
V2 : VIDEO 2 input mode (-Q2)

Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal

Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.

QV01 : In case of indication green ---Normal

In case of indication red with input signal---

Failure may exist in output line including QV01.

NOTE: Component which controls character display on screen is ICF01 (TELETEXT IC). If this display function fails to operate due to overage in ICF01, self diagnosis procedure is as follows.

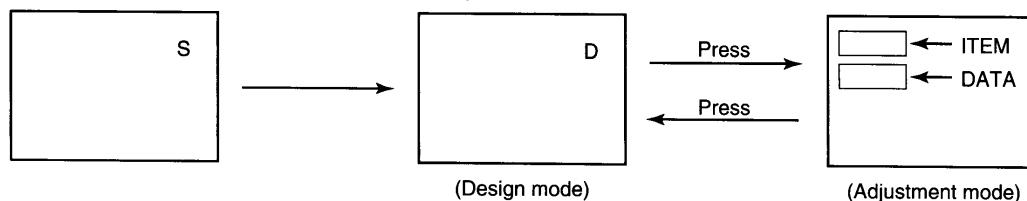
- (1) In case that power indicator is blinking with interval of 0.5 seconds, it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
- (2) In case that power indicator is blinking with interval of 1 second, Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

* The items marked with ■ are not usable to display in the SELF DIAGNOSTIC FUNCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

- 1) Select the Service mode.
- 2) While pressing $\star$ or CALL button on Remote and press MENU button on TV.
- 3) Press MENU button on TV.



When QA02 is initialized, items "OPT0" and "OPT1" of DESIGN MODE are set to the data of the representative model of this chassis family.

Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items "OPT0" and "OPT1".

2. SELECTING THE ADJUSTING ITEMS

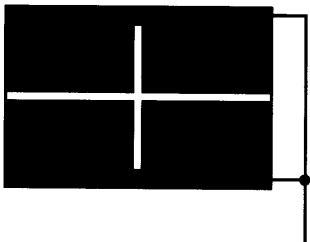
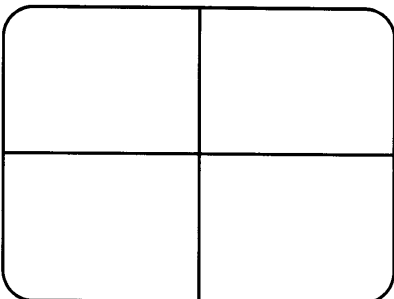
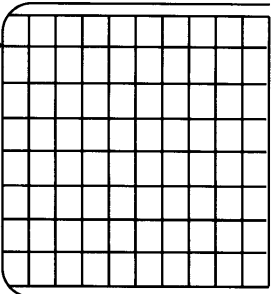
Every pressing of CHANNEL $\blacktriangledown$ button in the design mode changes the adjustment items in the order of table-3. ($\blacktriangle$ button for reverse order)

Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 14)

3. ADJUSTING THE DATA

Pressing of VOLUME $\blacktriangle$ or $\blacktriangledown$ button will change the value of data.

ELECTRICAL ADJUSTMENTS

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC) Note: Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT).	1. Set CONTRAST to minimum, and BRIGHTNESS to center by adjusting user controls. 2. Set the TV in service mode to get white cross-bar of inside pattern. 3. Select BRTC (brightness correction), and adjust the $\triangle - / +$ button to reduce the value so that white portion of inside pattern slightly light. 4. Adjust $\triangle - / +$ button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible. After that, return vertical height and contrast.  Belt of vertical retrace
HORIZONTAL POSITION ADJUSTMENT (HPOS) VERTICAL POSITION ADJUSTMENT (VPOS)	1. Set the TV in service mode, and get black or white cross-bar signal with VIDEO button on remote hand unit. 2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL $\blacktriangle, \blacktriangledown$ buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME $\triangle - / +$ buttons. 
VERTICAL AMPLITUDE ADJUSTMENT (HIT)	1. Set the TV in service mode, and get black or white cross-hatch signal with VIDEO button on remote hand unit. 2. Select HIT (Vertical amplitude) with CHANNEL $\blacktriangle, \blacktriangledown$ buttons, and adjust vertical amplitude with VOLUME $\triangle - / +$ buttons so that vertical amplitude lacks a little. 3. Adjust vertical amplitude with VOLUME $\triangle - / +$ buttons so that the first bar on cross-hatch signal touches edge of screen.  The first

ITEM	ADJUSTMENT PROCEDURE
WHITE BALANCE ADJUSTMENT - CUTOFF ADJUSTMENT (RCUT) (GCUT) (BCUT) - DRIVE ADJUSTMENT (GDRV) (BDRV)	- Set Contrast to 40, and brightness to +20 by picture control. - Set the TV in service mode, and get the inside W/B adjusting signal with VIDEO button. - Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to Initial reference data, and to set GDRV and BDRV to Initial reference data with VOLUME ▴ – /+ buttons (See page 14). - Press  button on the remote control and rotate Screen VR to get one slight horizontal line on screen. Note: Every pressing of  button provides Horizontal line picture and Normal picture alternately. - Press  button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ▴ – /+ buttons so that three colors slightly light in the same level. ※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust. ※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT. Light area check (to show white) Dark area check (to show black)

GENERAL ADJUSTMENTS

MODEL NAME : C7SS (PAL-100Hz WIDE) (Reference factory adjustments)

Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard				
[SCNT]	Sub-contrast	Dynamic mode	Sub-bright signal (PAL-I signal)	Q501#12 (TP501)	① Adjust the amplitude from the pedestal level to the white peak.	2.3 ± 0.2 Vp-p				
[BRTC]	Sub-bright center	Dynamic mode	Sub-bright signal	Screen adjustment	① Adjust the number of black collapsed lines in the sub-bright signal. ② This adjustment shall be done after the W/B and [SCNT] adjustments.	4 ± 1.5 lines Screen adjustment				
[COLP]	Sub-color center PAL	Dynamic mode	Sub-bright signal (PAL)	Q501#12 (TP501)	① Adjust the B-Y amplitude.	1.25 ± 0.2 Vp-p				
[RCUT] [GCUT] [BCUT] Screen VR [GDRV] [BDRV]	R cut-off G cut-off B cut-off G drive B drive	[RCUT] : 40 [GCUT] : 40 [BCUT] : 40 Horizontal straight-line mode [GDRV] : 40 [BDRV] : 40		Screen adjustment	① Set each control as shown in the left column. ② Gradually increase the screen VR until either R, G or B line starts to light up slightly. ③ Determine the screen VR adjustment position here. ④ Gradually increase remaining two screen VRs until respective line starts to light up slightly. (Adjust until the screen becomes almost white.) ⑤ Exit from the horizontal straight-line mode. ⑥ Using CA100, repeat this adjustment until correct value is set to both the dark and bright parts.	<table><tr><td>Bright part (103cd/m²)</td><td>Dark part (17cd/m²)</td></tr><tr><td>8750K- 0.002uv</td><td>8750K- 0.002uv</td></tr></table> Bright part (CA100)	Bright part (103cd/m ²)	Dark part (17cd/m ²)	8750K- 0.002uv	8750K- 0.002uv
Bright part (103cd/m ²)	Dark part (17cd/m ²)									
8750K- 0.002uv	8750K- 0.002uv									

CIRCUIT CHECK

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below (B) kV.



4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CHAPTER 2 SPECIFIC INFORMATION

SETTING & ADJUSTING DATA

【SAFETY INSTRUCTIONS】

		28"
HIGH VOLTAGE AT ZERO BEAM:	Ⓐ	32.9 kV
MAX HIGH VOLTAGE:	Ⓑ	34.0 kV
AV VOLTAGE	Ⓒ	220~240 V

Table-1

【SERVICE MODE】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Reference data	Item	Adjustment	Reference data
RCUT	R CUTOFF (B/W)	40H	VPOS	V-POSITION (CINEMA)	02H
GCUT	G CUTOFF (B/W)	40H	WID	PICTURE WIDTH	18H
BCUT	B CUTOFF (B/W)	40H	WID	PICTURE WIDTH (SUPER LIVE)	1DH
GDRV	G DRIVE	80H	WID	PICTURE WIDTH (CINEMA)	1AH
BDRV	B DRIVE	80H	PARA	E-W PARABOLA	1EH
BRTC	SUB BRIGHT CEN	80H	PARA	(SUPER LIVE)	1EH
COLP	SUB COLOR CEN PAL	6CH	PARA	(CINEMA)	2FH
COLS	SUB COLOR CEN SECAM	00H	CNR	E-W CORNER	12H
SCNT	SUB CONTRAST	06H	TRAP	TRAPEZIUM	39H
HIT	HEIGHT	43H	TRAP	(SUPER LIVE)	3AH
HIT	(SUPER LIVE 50HZ)	4CH	TRAP	(CINEMA)	3AH
HIT	(CINEMA)	62H	HCP	H-COMPENSATION	05H
HPOS	H-POSITION	0CH	VFC	V-F CORRECTION	0FH
VPOS	V-POSITION	03H	GMPO	GMPO	34H
HPOS	H-POSITION (SUPER LIVE)	0CH	GMPO	(SUPER LIVE)	34H
VPOS	V-POSITION (SUPER LIVE)	03H	GMPO	(CINEMA)	1BH

Table-2

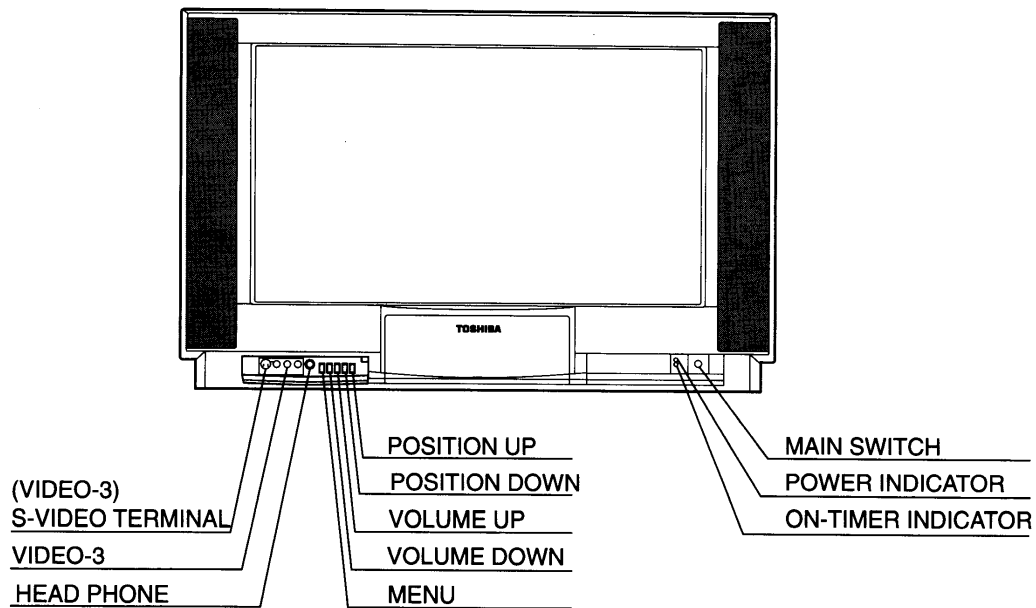
【DESIGN MODE】

ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

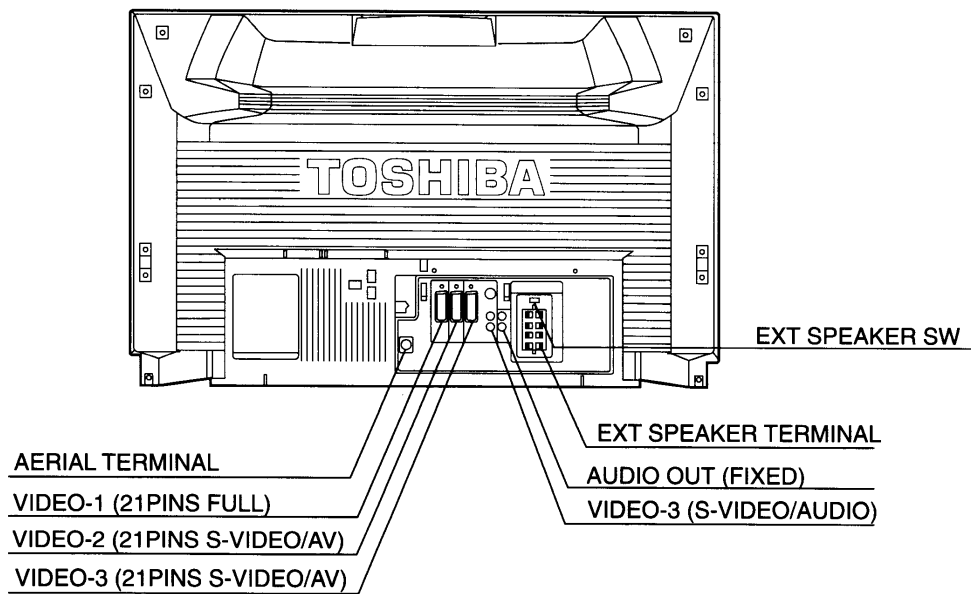
Item	Name of adjustment		Data	Remarks
		Preset Data		
	* There are no adjusting item in the DESIGN MODE.			

Table-3

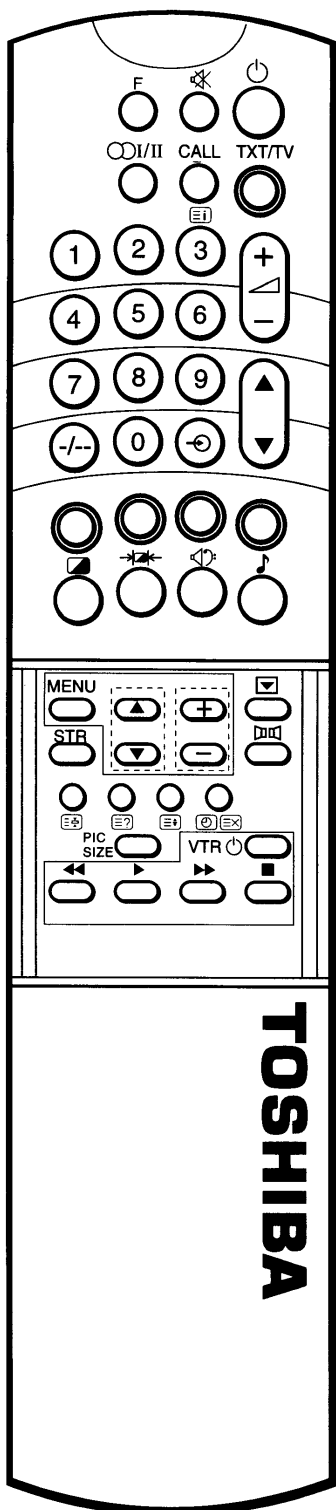
LOCATION OF CONTROLS



SPECIFIC INFORMATION



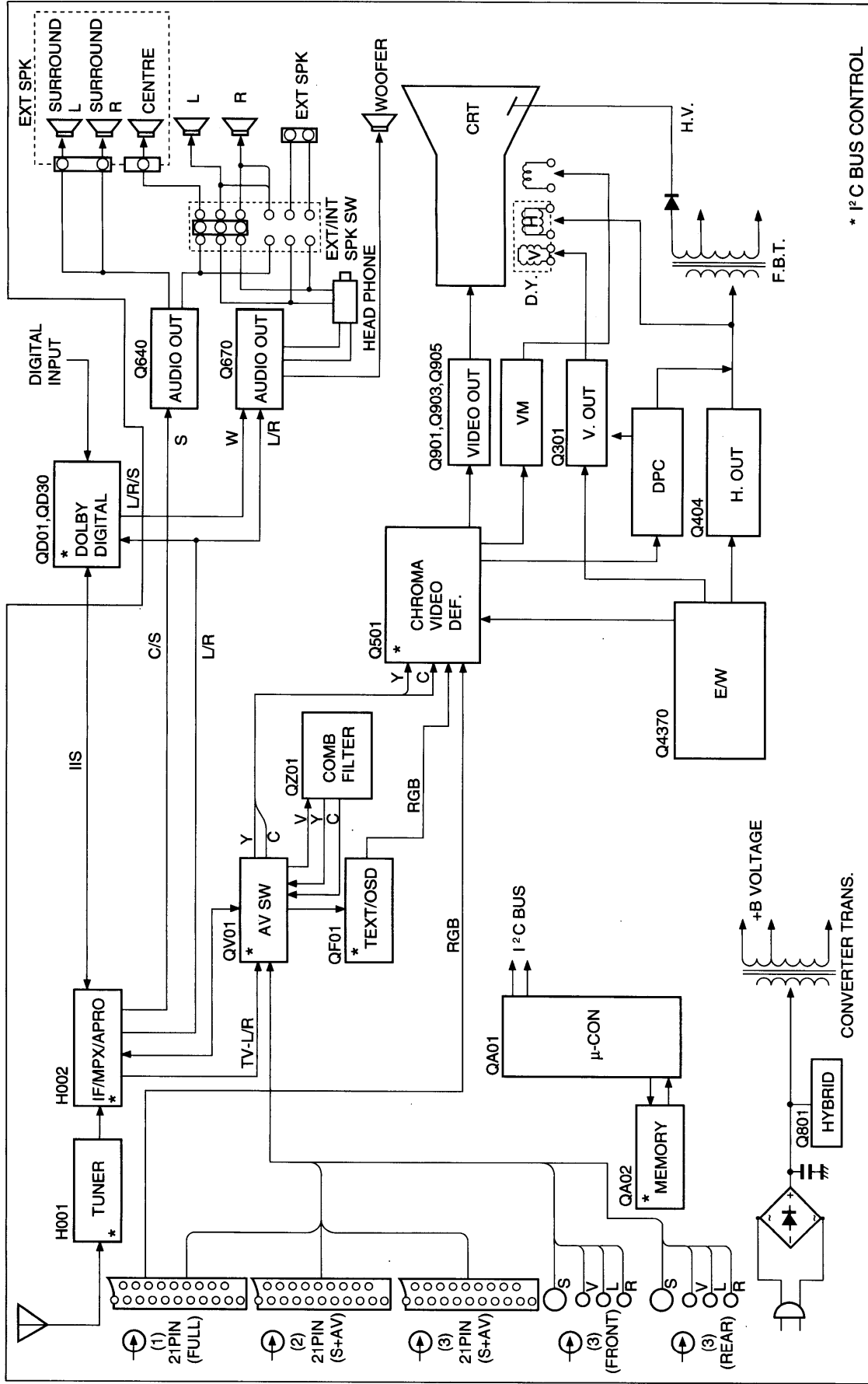
LOCATION OF CONTROLS



KEY ASSIGNMENT

- ⏻ ON/STAND-BY
- 🔇 Sound mute
- F (Quick/advanced operation)
- CALL (On-screen call)/📺 (index, initial) TELETEXT MODE
- 🖼️ PICTURE MENU
- 🔊 SOUND MENU
- 🔄 I/II <TV MODE> STEREO BILINGUAL
- 1~9, 0 TEN KEY
- / - 1 or 2 place
- 📺 VIDEO INPUT (EXTERNAL INPUT SOURCE SW.)
- 🔊 VOLUME
- + ... LEVEL PLUS (VOLUME, MENU)
- LEVEL MINUS (VOLUME, MENU)
- ▲ UP (POS., CH., TEXT PAGE)
- ▼ DOWN (POS., CH., TEXT PAGE)
- TXT/TV ... TEXT, MIX, TV MODE SW.
- 📺 HOLD
- 📺 <TEXT MODE> REVEAL / CONCEAL
- 📺 <TEXT MODE> F-T-B
(FULL, TOP, BOTTOM)
- 📺 TIME DISPLAY (TV MODE)
- TEXT CLEAR (TEXT MODE)
- FLC/COLOUR KEY (4 key used)
Red/Green/Yellow/Blue
- 🔊 Super woofer
- 🖼️ Still
- 🔊 DSP/Surround
- 🖼️ Selectable picture
- MENU TUNING & OTHER MENU
- 📺 / 📺 Menu select
- 📺 / 📺 Level down/up
- PIC SIZE PIC SIZE (Picture size select)
- STR Store
- ▲/▼ Menu Select
- +/- Level up/down
- VTR control
- ⏻ Power on/standby
- ▶ Play
- Stop
- ⏮ Rewind
- ⏭ Fast forward

CIRCUIT BLOCK DIAGRAM



* I²C BUS CONTROL

SPECIFIC INFORMATION

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols " Δ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with * mark is no longer available after the end of the production.

Models : 28W8DB

Capacitors CD : Ceramic Disk PF : Plastic Film EL : Electrolytic
Resistors CF : Carbon Film CC : Carbon Composition MF : Metal Film
 OMF : Oxide Metal Film VR : Variable Resistor FR : Fusible Resistor
(All CD and PF capacitors are $\pm 5\%$, 50V and all resistors, $\pm 5\%$, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C103	24232103	CD, 0.01 μ F, +80%, -20%
C104	24794470	EL, 47 μ F, $\pm 20\%$, 16V
C105	24232103	CD, 0.01 μ F, +80%, -20%
C106	24797100	EL, 10 μ F, $\pm 20\%$, 50V
C107	24794221	EL, 220 μ F, $\pm 20\%$, 16V
C108	24666101	EL, 100 μ F, $\pm 20\%$, 16V
C109	24232103	CD, 0.01 μ F, +80%, -20%
C116	24794221	EL, 220 μ F, $\pm 20\%$, 16V
C183	24797229	EL, 2.2 μ F, $\pm 20\%$, 50V
C198	24232103	CD, 0.01 μ F, +80%, -20%
C199	24794221	EL, 220 μ F, $\pm 20\%$, 16V
C211	24666220	EL, 22 μ F, $\pm 20\%$, 16V
C212	24797010	EL, 1 μ F, $\pm 20\%$, 50V
C214	24232103	CD, 0.01 μ F, +80%, -20%
C215	24794470	EL, 47 μ F, $\pm 20\%$, 16V
C216	24797010	EL, 1 μ F, $\pm 20\%$, 50V
C217	24797479	EL, 4.7 μ F, $\pm 20\%$, 50V
C218	24538104	PF, 0.1 μ F
C219	24212471	CD, 470pF, $\pm 10\%$
C220	24538104	PF, 0.1 μ F
C221	24538104	PF, 0.1 μ F
C222	24538104	PF, 0.1 μ F
C273	24797229	EL, 2.2 μ F, $\pm 20\%$, 50V
C303	24214471	CD, 470pF, $\pm 10\%$, 500V
C305	24617915	EL, 1 μ F, $\pm 10\%$, 50V
C306	24073059	EL, 3300 μ F, $\pm 20\%$, 25V
C307	24082049	PF, 0.047 μ F, 100V
C308	24668221	EL, 220 μ F, $\pm 20\%$, 35V
C309	24590102	PF, 1000pF
C310	24796222	EL, 2200 μ F, $\pm 20\%$, 35V
C311	24214561	CD, 560pF, $\pm 10\%$, 500V
C313	24082058	PF, 0.27 μ F, 100V
C314	24591563	PF, 0.056 μ F
C315	24797010	EL, 1 μ F, $\pm 20\%$, 50V
C320	24796101	EL, 100 μ F, $\pm 20\%$, 35V
C330	24212102	CD, 1000pF, $\pm 10\%$
C360	24590224	PF, 0.22 μ F
C366	24082049	PF, 0.047 μ F, 100V
C370	24794101	EL, 100 μ F, $\pm 20\%$, 16V
C371	24794100	EL, 10 μ F, $\pm 20\%$, 16V

Location No.	Part No.	Description
C402	24232103	CD, 0.01 μ F, +80%, -20%
C403	24590223	PF, 0.022 μ F
C404	24797229	EL, 2.2 μ F, $\pm 20\%$, 50V
C406	24538104	PF, 0.1 μ F
C407	24232103	CD, 0.01 μ F, +80%, -20%
C409	24212102	CD, 1000pF, $\pm 10\%$
C410	24092341	CD, 470pF, $\pm 10\%$, 2kV
C413	24214821	CD, 820pF, $\pm 10\%$, 500V
C416	24678010	EL, 1 μ F, $\pm 20\%$, 200V
C417	24214391	CD, 390pF, $\pm 10\%$, 500V
C420	24666101	EL, 100 μ F, $\pm 20\%$, 16V
C423	24829823	PF, 0.082 μ F, 400V
C427	24206010	EL, 1 μ F, 50V
C430	24794102	EL, 1000 μ F, $\pm 20\%$, 16V
C431	24232103	CD, 0.01 μ F, +80%, -20%
C431	24232103	CD, 0.01 μ F, +80%, -20%
C432	24232103	CD, 0.01 μ F, +80%, -20%
C433	24794470	EL, 47 μ F, $\pm 20\%$, 16V
C434	24474102	CD, 1000pF, $\pm 10\%$
C440	24082491	PF, 9100pF, $\pm 3\%$, 1500V
C441	24082669	PF, 0.33 μ F, 250V
C442	24082695	PF, 0.36 μ F, 250V
C444	24082517	PF, 5100pF, $\pm 3\%$, 1800V
C445	24828473	PF, 0.047 μ F, 200V
C446	24679330	EL, 33 μ F, $\pm 20\%$, 250V
C448	24640908	EL, 33 μ F, $\pm 20\%$, 160V
C460	24796331	EL, 330 μ F, $\pm 20\%$, 35V
C463	24212222	CD, 2200pF, $\pm 10\%$
C464	24640900	EL, 4.7 μ F, $\pm 20\%$, 100V
C465	24590683	PF, 0.068 μ F
C466	24082095	PF, 0.018 μ F, $\pm 3\%$, 630V
C470	24794220	EL, 22 μ F, $\pm 20\%$, 16V
C472	24538474	PF, 0.47 μ F
C473	24669010	EL, 1 μ F, $\pm 20\%$, 50V
C479	24214471	CD, 470pF, $\pm 10\%$, 500V
C481	24538474	PF, 0.47 μ F
C491	24082749	PF, 1.5 μ F, 250V
C492	24082672	PF, 0.43 μ F, 250V
C501	24797479	EL, 4.7 μ F, $\pm 20\%$, 50V
C502	24590103	PF, 0.01 μ F
C503	24797229	EL, 2.2 μ F, $\pm 20\%$, 50V

Location No.	Part No.	Description
C504	24538104	PF, 0.1 μ F
C505	24538104	PF, 0.1 μ F
C506	24474102	CD, 1000pF, $\pm$ 10%
C507	24232103	CD, 0.01 μ F, +80%, -20%
C508	24353120	CD, 12pF
C509	24794100	EL, 10 μ F, $\pm$ 20%, 16V
C510	24232103	CD, 0.01 μ F, +80%, -20%
C511	24794101	EL, 100 μ F, $\pm$ 20%, 16V
C512	24232103	CD, 0.01 μ F, +80%, -20%
C513	24232103	CD, 0.01 μ F, +80%, -20%
C514	24538104	PF, 0.1 μ F
C515	24232103	CD, 0.01 μ F, +80%, -20%
C517	24353101	CD, 100pF
C521	24206010	EL, 1 μ F, 50V
C528	24232103	CD, 0.01 μ F, +80%, -20%
C529	24794470	EL, 47 μ F, $\pm$ 20%, 16V
C613	24794470	EL, 47 μ F, $\pm$ 20%, 16V
C631	24795470	EL, 47 μ F, $\pm$ 20%, 25V
C641	24206010	EL, 1 μ F, 50V
C642	24795470	EL, 47 μ F, $\pm$ 20%, 25V
C644	24206010	EL, 1 μ F, 50V
C645	24795470	EL, 47 μ F, $\pm$ 20%, 25V
C647	24591102	PF, 1000pF
C648	24590682	PF, 6800pF
C649	24206229	EL, 2.2 μ F, 50V
C650	24796102	EL, 1000 μ F, $\pm$ 20%, 35V
C651	24668471	EL, 470 μ F, $\pm$ 20%, 35V
C652	24668471	EL, 470 μ F, $\pm$ 20%, 35V
C654	24591124	PF, 0.12 μ F
C655	24591124	PF, 0.12 μ F
C656	24232103	CD, 0.01 μ F, +80%, -20%
C660	24206229	EL, 2.2 μ F, 50V
C661	24538104	PF, 0.1 μ F
C663	24797229	EL, 2.2 μ F, $\pm$ 20%, 50V
C664	24203100	EL, 10 μ F, $\pm$ 20%, 16V
C665	24206229	EL, 2.2 μ F, 50V
C666	24206229	EL, 2.2 μ F, 50V
C667	24232103	CD, 0.01 μ F, +80%, -20%
C668	24794100	EL, 10 μ F, $\pm$ 20%, 16V
C668	24232103	CD, 0.01 μ F, +80%, -20%
C669	24668330	EL, 33 μ F, $\pm$ 20%, 35V
C670	24668330	EL, 33 μ F, $\pm$ 20%, 35V
C671	24797010	EL, 1 μ F, $\pm$ 20%, 50V
C671	24212102	CD, 1000pF, $\pm$ 10%
C672	24212102	CD, 1000pF, $\pm$ 10%
C673	24797010	EL, 1 μ F, $\pm$ 20%, 50V
C673	24474102	CD, 1000pF, $\pm$ 10%
C674	24474102	CD, 1000pF, $\pm$ 10%
C674	24797010	EL, 1 μ F, $\pm$ 20%, 50V
C675	24795470	EL, 47 μ F, $\pm$ 20%, 25V
C675	24474102	CD, 1000pF, $\pm$ 10%
C676	24797479	EL, 4.7 μ F, $\pm$ 20%, 50V
C676	24474102	CD, 1000pF, $\pm$ 10%
C677	24590102	PF, 1000pF
C677	24212102	CD, 1000pF, $\pm$ 10%
C678	24590102	PF, 1000pF
C678	24474102	CD, 1000pF, $\pm$ 10%
C679	24474102	CD, 1000pF, $\pm$ 10%
C679	24538104	PF, 0.1 μ F
C680	24212102	CD, 1000pF, $\pm$ 10%
C680	24668102	EL, 1000 μ F, $\pm$ 20%, 35V
C681	24474102	CD, 1000pF, $\pm$ 10%
C681	24668471	EL, 470 μ F, $\pm$ 20%, 35V
C682	24474102	CD, 1000pF, $\pm$ 10%

Location No.	Part No.	Description
C682	24668471	EL, 470 μ F, $\pm$ 20%, 35V
C683	24668102	EL, 1000 μ F, $\pm$ 20%, 35V
C683	24232103	CD, 0.01 μ F, +80%, -20%
C684	24590124	PF, 0.12 μ F
C684	24232103	CD, 0.01 μ F, +80%, -20%
C685	24232103	CD, 0.01 μ F, +80%, -20%
C685	24590124	PF, 0.12 μ F
C686	24232103	CD, 0.01 μ F, +80%, -20%
C686	24590124	PF, 0.12 μ F
C687	24232103	CD, 0.01 μ F, +80%, -20%
C688	24203220	EL, 22 μ F, $\pm$ 20%, 16V
C689	24797010	EL, 1 μ F, $\pm$ 20%, 50V
C695	24762222	EL, 2200 μ F, $\pm$ 20%, 10V
C704	24591822	PF, 8200pF
C705	24232103	CD, 0.01 μ F, +80%, -20%
C707	24794470	EL, 47 μ F, $\pm$ 20%, 16V
C712	24666470	EL, 47 μ F, $\pm$ 20%, 16V
C713	24790100	EL, 10 μ F, $\pm$ 20%, 160V
C714	24436101	CD, 100pF
C715	24214472	CD, 4700pF, $\pm$ 10%, 500V
C716	24436101	CD, 100pF
C717	24214472	CD, 4700pF, $\pm$ 10%, 500V
C718	24794470	EL, 47 μ F, $\pm$ 20%, 16V
C719	24435271	CD, 270pF, 500V
C720	24790100	EL, 10 μ F, $\pm$ 20%, 160V
C721	24794470	EL, 47 μ F, $\pm$ 20%, 16V
C722	24436561	CD, 560pF
C726	24212102	CD, 1000pF, $\pm$ 10%
△C801	24082927	PF, 0.22 μ F, $\pm$ 20%, AC275V
C802	24082927	PF, 0.22 μ F, $\pm$ 20%, AC275V
C805	24092281	CD, 4700pF, $\pm$ 20%, AC250V
C806	24092281	CD, 4700pF, $\pm$ 20%, AC250V
C808	24667331	EL, 330 μ F, $\pm$ 20%, 25V
C809	24214471	CD, 470pF, $\pm$ 10%, 500V
C810	24086063	EL, 330 μ F, $\pm$ 20%, 400V
△C811	24092557	CD, 2200pF, $\pm$ 20%, AC250V
△C813	24092555	CD, 1000pF, $\pm$ 10%, AC250V
△C814	24092555	CD, 1000pF, $\pm$ 10%, AC250V
△C815	24092553	CD, 470pF, $\pm$ 20%, AC250V
C816	24669221	EL, 220 μ F, $\pm$ 20%, 50V
C817	24092341	CD, 470pF, $\pm$ 10%, 2kV
C818	24095931	PF, 2200pF, 1250V
C819	24676220	EL, 22 μ F, $\pm$ 20%, 100V
C820	24092343	CD, 680pF, $\pm$ 10%, 2kV
C821	24214471	CD, 470pF, $\pm$ 10%, 500V
C822	24538474	PF, 0.47 μ F
C829	24590182	PF, 1800pF
C832	24794470	EL, 47 μ F, $\pm$ 20%, 16V
C833	24669100	EL, 10 μ F, $\pm$ 20%, 50V
C834	24797100	EL, 10 μ F, $\pm$ 20%, 50V
C835	24794470	EL, 47 μ F, $\pm$ 20%, 16V
C841	24669100	EL, 10 μ F, $\pm$ 20%, 50V
C842	24669100	EL, 10 μ F, $\pm$ 20%, 50V
C843	24538104	PF, 0.1 μ F
C846	24538104	PF, 0.1 μ F
C872	24669221	EL, 220 μ F, $\pm$ 20%, 50V
C874	24667330	EL, 33 μ F, $\pm$ 20%, 25V
C876	24666101	EL, 100 μ F, $\pm$ 20%, 16V
C884	24086916	EL, 330 μ F, $\pm$ 20%, 160V
C885	24214471	CD, 470pF, $\pm$ 10%, 500V
C887	24214471	CD, 470pF, $\pm$ 10%, 500V
C889	24668222	EL, 2200 μ F, $\pm$ 20%, 35V
C892	24668222	EL, 2200 μ F, $\pm$ 20%, 35V
C893	24092337	CD, 220pF, $\pm$ 10%, 2kV

Location No.	Part No.	Description
C894	24668222	EL, 2200 μ F, $\pm$ 20%, 35V
C895	24669470	EL, 47 μ F, $\pm$ 20%, 50V
C896	24214471	CD, 470pF, $\pm$ 10%, 500V
C897	24668332	EL, 3300 μ F, $\pm$ 20%, 35V
C898	24538224	PF, 0.22 μ F
C899	24214471	CD, 470pF, $\pm$ 10%, 500V
C901	24794102	EL, 1000 μ F, $\pm$ 20%, 16V
C902	24092345	CD, 1000pF, $\pm$ 10%, 2kV
C904	24436471	CD, 470pF
C905	24436471	CD, 470pF
C907	24436471	CD, 470pF
C909	24679220	EL, 22 μ F, $\pm$ 20%, 250V
C910	24797478	EL, 0.47 μ F, $\pm$ 20%, 50V
C911	24203100	EL, 10 μ F, $\pm$ 20%, 16V
C912	24763102	EL, 1000 μ F, $\pm$ 20%, 16V
C913	24763102	EL, 1000 μ F, $\pm$ 20%, 16V
C914	24212103	CD, 0.01 μ F, $\pm$ 10%
C920	24591104	PF, 0.1 μ F
C921	24591104	PF, 0.1 μ F
C930	24214101	CD, 100pF, $\pm$ 10%, 500V
C931	24214101	CD, 100pF, $\pm$ 10%, 500V
C4370	24436471	CD, 470pF
C4372	24617915	EL, 1 μ F, $\pm$ 10%, 50V
C4373	24539474	PF, 0.47 μ F
C4374	24617915	EL, 1 μ F, $\pm$ 10%, 50V
C4375	24591203	PF, 0.02 μ F
C4376	24539474	PF, 0.47 μ F
C4377	24590102	PF, 1000pF
C4378	24617787	EL, 470 μ F, $\pm$ 20%, 16V
C4379	24794101	EL, 100 μ F, $\pm$ 20%, 16V
C4380	24212102	CD, 1000pF, $\pm$ 10%
C4381	24797478	EL, 0.47 μ F, $\pm$ 20%, 50V
C4490	24082646	PF, 0.24 μ F, $\pm$ 5%, 400V
C4491	24082646	PF, 0.24 μ F, $\pm$ 5%, 400V
CA13	24212101	CD, 100pF, $\pm$ 10%
CA28	24366104	CF, 100k ohm
CA29	24212221	CD, 220pF, $\pm$ 10%
CA30	24212101	CD, 100pF, $\pm$ 10%
CA33	24232103	CD, 0.01 μ F, +80%, -20%
CA42	24794100	EL, 10 μ F, $\pm$ 20%, 16V
CA43	24232103	CD, 0.01 μ F, +80%, -20%
CA44	24232103	CD, 0.01 μ F, +80%, -20%
CA68	24794100	EL, 10 μ F, $\pm$ 20%, 16V
CA69	24232103	CD, 0.01 μ F, +80%, -20%
CA99	24590102	PF, 1000pF
CB01	24794470	EL, 47 μ F, $\pm$ 20%, 16V
CC01	24232103	CD, 0.01 μ F, +80%, -20%
CC03	24436220	CD, 22pF
CC07	24436100	CD, 10pF, $\pm$ 0.25pF
CC37	24212103	CD, 0.01 μ F, $\pm$ 10%
CD01	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CD02	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CD03	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CD04	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CD05	24781330	Chip, 33pF, SL
CD06	24781330	Chip, 33pF, SL
CD20	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CD21	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CD22	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CD23	24793221	EL, 220 μ F, $\pm$ 20%, 10V
CD24	24092293	Chip, 0.1 μ F, +80%, -20%, 25V
CD25	24793221	EL, 220 μ F, $\pm$ 20%, 10V
CD30	24794100	EL, 10 μ F, $\pm$ 20%, 16V
CD31	24794220	EL, 22 μ F, $\pm$ 20%, 16V

Location No.	Part No.	Description
CD32	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CD33	24590823	PF, 0.082 μ F
CD34	24590104	PF, 0.1 μ F
CD35	24591124	PF, 0.12 μ F
CD36	24781102	Chip, 1000pF, SL
CD37	24794100	EL, 10 μ F, $\pm$ 20%, 16V
CD38	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CD39	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CD40	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CD41	24814103	Chip, 0.01 μ F, +80%, -20%
CD42	24794101	EL, 100 μ F, $\pm$ 20%, 16V
CF01	24567104	PF, 0.1 μ F
CF02	24353100	CD, 10pF, $\pm$ 0.25pF
CF03	24353150	CD, 15pF
CF04	24212102	CD, 1000pF, $\pm$ 10%
CF05	24567104	PF, 0.1 μ F
CF06	24567104	PF, 0.1 μ F
CF07	24085944	EL, 2.2 μ F, $\pm$ 20%, 50V, Non-Polar
CF08	24232103	CD, 0.01 μ F, +80%, -20%
CF09	24794101	EL, 100 μ F, $\pm$ 20%, 16V
CF10	24436220	CD, 22pF
CF14	24794100	EL, 10 μ F, $\pm$ 20%, 16V
CF16	24436220	CD, 22pF
CR01	24666100	EL, 10 μ F, $\pm$ 20%, 16V
CR02	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CR03	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CR04	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CR05	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CR06	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CR07	24797010	EL, 1 μ F, $\pm$ 20%, 50V
CR08	24357270	CD, 27pF
CR09	24353560	CD, 56pF
CR10	24353560	CD, 56pF
CR11	24353560	CD, 56pF
CS01	24085944	EL, 2.2 μ F, $\pm$ 20%, 50V, Non-Polar
CS02	24085944	EL, 2.2 μ F, $\pm$ 20%, 50V, Non-Polar
CS03	24206229	EL, 2.2 μ F, 50V
CS04	24206229	EL, 2.2 μ F, 50V
CS05	24206229	EL, 2.2 μ F, 50V
CS06	24206229	EL, 2.2 μ F, 50V
CS07	24206229	EL, 2.2 μ F, 50V
CS08	24206229	EL, 2.2 μ F, 50V
CS09	24206010	EL, 1 μ F, 50V
CS12	24474102	CD, 1000pF, $\pm$ 10%
CS13	24474102	CD, 1000pF, $\pm$ 10%
CS14	24206100	EL, 10 μ F, 50V
CS15	24206100	EL, 10 μ F, 50V
CS17	24203100	EL, 10 μ F, $\pm$ 20%, 16V
CS18	24203100	EL, 10 μ F, $\pm$ 20%, 16V
CS19	24206478	EL, 0.47 μ F, 50V
CS22	24666100	EL, 10 μ F, $\pm$ 20%, 16V
CS23	24666100	EL, 10 μ F, $\pm$ 20%, 16V
CV01	24590103	PF, 0.01 μ F
CV02	24085970	EL, 10 μ F, $\pm$ 20%, 16V, Non-Polar
CV03	24666100	EL, 10 μ F, $\pm$ 20%, 16V
CV04	24666100	EL, 10 μ F, $\pm$ 20%, 16V
CV05	24232103	CD, 0.01 μ F, +80%, -20%
CV06	24666100	EL, 10 μ F, $\pm$ 20%, 16V
CV07	24232103	CD, 0.01 μ F, +80%, -20%
CV08	24763102	EL, 1000 μ F, $\pm$ 20%, 16V

Location No.	Part No.	Description
CV09	24666100	EL, 10 μ F, $\pm$ 20%, 16V
CV10	24085970	EL, 10 μ F, $\pm$ 20%, 16V, Non-Polar
CV11	24436331	CD, 330pF
CV12	24092398	CD, 0.1 μ F, +80%, -20%
CV13	24232103	CD, 0.01 μ F, +80%, -20%
CV14	24474102	CD, 1000pF, $\pm$ 10%
CV15	24474102	CD, 1000pF, $\pm$ 10%
CV16	24474102	CD, 1000pF, $\pm$ 10%
CV17	24474102	CD, 1000pF, $\pm$ 10%
CV18	24474102	CD, 1000pF, $\pm$ 10%
CV19	24474102	CD, 1000pF, $\pm$ 10%
CV21	24591153	PF, 0.015 μ F
CV23	24666101	EL, 100 μ F, $\pm$ 20%, 16V
CV24	24232103	CD, 0.01 μ F, +80%, -20%
CV25	24763471	EL, 470 μ F, $\pm$ 20%, 16V
CV34	24474102	CD, 1000pF, $\pm$ 10%
CV35	24212102	CD, 1000pF, $\pm$ 10%
CV37	24474102	CD, 1000pF, $\pm$ 10%
CV46	24212332	CD, 3300pF, $\pm$ 10%
CV47	24212332	CD, 3300pF, $\pm$ 10%
CV48	24212102	CD, 1000pF, $\pm$ 10%
CV65	24666101	EL, 100 μ F, $\pm$ 20%, 16V
CV66	24666101	EL, 100 μ F, $\pm$ 20%, 16V
CV67	24763471	EL, 470 μ F, $\pm$ 20%, 16V
CV68	24763471	EL, 470 μ F, $\pm$ 20%, 16V
CV80	24232103	CD, 0.01 μ F, +80%, -20%
CZ08	24203100	EL, 10 μ F, $\pm$ 20%, 16V
CZ09	24473220	CD, 22pF
CZ10	24473180	CD, 18pF
CZ11	24473100	CD, 10pF
CZ12	24232103	CD, 0.01 μ F, +80%, -20%
CZ13	24092398	CD, 0.1 μ F, +80%, -20%
CZ14	24617816	EL, 10 μ F, $\pm$ 20%, 50V
CZ15	24232103	CD, 0.01 μ F, +80%, -20%
CZ16	24206478	EL, 0.47 μ F, 50V
CZ17	24232103	CD, 0.01 μ F, +80%, -20%
CZ19	24436181	CD, 180pF
CZ20	24590103	PF, 0.01 μ F
CZ21	24473390	CD, 39pF
CZ22	24617816	EL, 10 μ F, $\pm$ 20%, 50V
CZ23	24092398	CD, 0.1 μ F, +80%, -20%
CZ24	24092398	CD, 0.1 μ F, +80%, -20%
CZ25	24203101	EL, 100 μ F, $\pm$ 20%, 16V
CZ26	24232103	CD, 0.01 μ F, +80%, -20%
CZ28	24232103	CD, 0.01 μ F, +80%, -20%
CZ29	24092398	CD, 0.1 μ F, +80%, -20%
CZ30	24617816	EL, 10 μ F, $\pm$ 20%, 50V
CZ32	24473120	CD, 12pF
CZ33	24473120	CD, 12pF
CZ34	24473120	CD, 12pF
CZ35	24473120	CD, 12pF
CZ37	24092398	CD, 0.1 μ F, +80%, -20%
CZ38	24092398	CD, 0.1 μ F, +80%, -20%
CZ45	24473100	CD, 10pF
RESISTORS		
R101	24382223	OMF, 22k ohm, 1W
R201	24366102	CF, 1k ohm
R202	24366102	CF, 1k ohm
R203	24366271	CF, 270 ohm
R205	24366222	CF, 2200 ohm
R206	24366472	CF, 4700 ohm
R208	24366103	CF, 10k ohm

Location No.	Part No.	Description
R209	24366103	CF, 10k ohm
R210	24366271	CF, 270 ohm
R211	24366563	CF, 56k ohm
R212	24366271	CF, 270 ohm
R213	24366223	CF, 22k ohm
R214	24366824	CF, 820k ohm
R215	24366102	CF, 1k ohm
R217	24366332	CF, 3300 ohm
R218	24366513	CF, 51k ohm
R220	24366102	CF, 1k ohm
R221	24366102	CF, 1k ohm
R223	24366102	CF, 1k ohm
R226	24366473	CF, 47k ohm
R227	24366223	CF, 22k ohm
R240	24366122	CF, 1200 ohm
R273	24366473	CF, 47k ohm
R274	24366472	CF, 4700 ohm
R275	24366101	CF, 100 ohm
R276	24366683	CF, 68k ohm
R277	24366102	CF, 1k ohm
R299	24366103	CF, 10k ohm
R301	24366102	CF, 1k ohm
R303	24321109	MF, 1 ohm, 1/2W
R304	24366753	CF, 75k ohm
R305	24322109	MF, 1 ohm, 1W
R306	24366823	CF, 82k ohm
R307	24366364	CF, 360k ohm
R310	24382561	OMF, 560 ohm, 1W
R311	24366472	CF, 4700 ohm
R312	24366103	CF, 10k ohm
R313	24366393	CF, 39k ohm
R323	24366102	CF, 1k ohm
R324	24366183	CF, 18k ohm
R327	24339479	MF, 4.7 ohm, 2W
R332	24366223	CF, 22k ohm
R333	24366103	CF, 10k ohm
R336	24383391	OMF, 390 ohm, 2W
R344	24382621	OMF, 620 ohm, 1W
R345	24383101	OMF, 100 ohm, 2W
R360	24366223	CF, 22k ohm
R361	24366223	CF, 22k ohm
R364	24366103	CF, 10k ohm
R365	24366223	CF, 22k ohm
R366	24366472	CF, 4700 ohm
R367	24366471	CF, 470 ohm
R368	24366102	CF, 1k ohm
R369	24366103	CF, 10k ohm
R370	24322828	OMF, 0.82 ohm, 1W
R370	24366152	CF, 1500 ohm
R371	24366682	CF, 6800 ohm
R371	24366102	CF, 1k ohm
R372	24366202	CF, 2k ohm
R372	24366272	CF, 2700 ohm
R373	24366182	CF, 1800 ohm
R374	24366153	CF, 15k ohm
R375	24552182	OMF, 1800 ohm, 1/2W
R381	24366103	CF, 10k ohm
R382	24366393	CF, 39k ohm
R383	24366103	CF, 10k ohm
R384	24381100	OMF, 10 ohm, 1/2W
R393	24366392	CF, 3900 ohm
R399	24366684	CF, 680k ohm
R401	24366104	CF, 100k ohm
R402	24366101	CF, 100 ohm

Location No.	Part No.	Description
R403	24366472	CF, 4700 ohm
R405	24553682	OMF, 6800 ohm, 1W
R406	24366104	CF, 100k ohm
R407	24366272	CF, 2700 ohm
R408	24366103	CF, 10k ohm
R410	24366151	CF, 150 ohm
R415	24553272	OMF, 2700 ohm, 1W
R417	24510562	Cement, 5600 ohm, 5W
R422	24366101	CF, 100 ohm
R424	24366152	CF, 1500 ohm
R425	24366182	CF, 1800 ohm
R426	24366202	CF, 2k ohm
R427	24366392	CF, 3900 ohm
R428	24366561	CF, 560 ohm
R429	24552560	OMF, 56 ohm, 1/2W
R430	24366222	CF, 2200 ohm
R434	24552101	OMF, 100 ohm, 1/2W
R435	24366184	CF, 180k ohm
R436	24366101	CF, 100 ohm
R437	24366471	CF, 470 ohm
R438	24552102	OMF, 1k ohm, 1/2W
R441	24532102	FR, 1k ohm, 1W
R442	24533151	FR, 150 ohm, 2W
R445	24532102	FR, 1k ohm, 1W
R449	24532102	FR, 1k ohm, 1W
R460	24552332	OMF, 3300 ohm, 1/2W
R461	24552182	OMF, 1800 ohm, 1/2W
R463	24323229	MF, 2.2 ohm, 2W
R464	24366273	CF, 27k ohm
R465	24366101	CF, 100 ohm
R466	24366562	CF, 5600 ohm
R467	24327224	MF, 220k ohm, $\pm 1\%$, 1/4W
R468	24366163	CF, 16k ohm
R469	24531150	FR, 15 ohm, 1/2W
R470	24339568	OMF, 0.56 ohm, 2W
R471	24531271	FR, 270 ohm, 1/2W
R479	24531680	FR, 68 ohm, 1/2W
R490	24366101	CF, 100 ohm
R491	24366101	CF, 100 ohm
R492	24366272	CF, 2700 ohm
R493	24366103	CF, 10k ohm
R494	24366103	CF, 10k ohm
R501	24366273	CF, 27k ohm
R505	24366102	CF, 1k ohm
R506	24366103	CF, 10k ohm
R508	24366102	CF, 1k ohm
R509	24366102	CF, 1k ohm
R510	24366102	CF, 1k ohm
R511	24366101	CF, 100 ohm
R514	24366473	CF, 47k ohm
R515	24366103	CF, 10k ohm
R516	24366222	CF, 2200 ohm
R609	24366563	CF, 56k ohm
R610	24366103	CF, 10k ohm
R611	24366103	CF, 10k ohm
R612	24366103	CF, 10k ohm
R633	24366223	CF, 22k ohm
R640	24366122	CF, 1200 ohm
R641	24366182	CF, 1800 ohm
R642	24366562	CF, 5600 ohm
R643	24366333	CF, 33k ohm
R644	24366473	CF, 47k ohm
R645	24366229	CF, 2.2 ohm
R646	24366223	CF, 22k ohm

Location No.	Part No.	Description
R648	24366229	CF, 2.2 ohm
R661	24510159	Cement, 1.5 ohm, 5W
R661	24552221	OMF, 220 ohm, 1/2W
R662	24552221	OMF, 220 ohm, 1/2W
R662	24510159	Cement, 1.5 ohm, 5W
R670	24366272	CF, 2700 ohm
R671	24366392	CF, 3900 ohm
R671	24366102	CF, 1k ohm
R672	24366102	CF, 1k ohm
R672	24366272	CF, 2700 ohm
R673	24366102	CF, 1k ohm
R673	24366392	CF, 3900 ohm
R674	24366332	CF, 3300 ohm
R675	24366472	CF, 4700 ohm
R675	24366102	CF, 1k ohm
R676	24366223	CF, 22k ohm
R676	24366223	CF, 22k ohm
R677	24366223	CF, 22k ohm
R677	24366223	CF, 22k ohm
R678	24366223	CF, 22k ohm
R679	24366223	CF, 22k ohm
R680	24366223	CF, 22k ohm
R680	24366473	CF, 47k ohm
R681	24366223	CF, 22k ohm
R682	24366104	CF, 100k ohm
R683	24366273	CF, 27k ohm
R684	24366229	CF, 2.2 ohm
R685	24366229	CF, 2.2 ohm
R686	24366229	CF, 2.2 ohm
R687	24366222	CF, 2200 ohm
R688	24366222	CF, 2200 ohm
R689	24366104	CF, 100k ohm
R690	24366681	CF, 680 ohm
R691	24366681	CF, 680 ohm
R692	24366681	CF, 680 ohm
R693	24366681	CF, 680 ohm
R702	24366222	CF, 2200 ohm
R709	24366563	CF, 56k ohm
R713	24366393	CF, 39k ohm
R714	24552121	OMF, 120 ohm, 1/2W
R715	24366223	CF, 22k ohm
R716	24366273	CF, 27k ohm
R717	24366333	CF, 33k ohm
R718	24366222	CF, 2200 ohm
R719	24366392	CF, 3900 ohm
R720	24366392	CF, 3900 ohm
R721	24366102	CF, 1k ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366471	CF, 470 ohm
R724	24366470	CF, 47 ohm
R725	24366182	CF, 1800 ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24552331	OMF, 330 ohm, 1/2W
R732	24366820	CF, 82 ohm
R733	24366683	CF, 68k ohm
R734	24366820	CF, 82 ohm
R735	24366683	CF, 68k ohm
R736	24366620	CF, 62 ohm
R737	24366152	CF, 1500 ohm
R738	24366123	CF, 12k ohm
R739	24366152	CF, 1500 ohm
R740	24366620	CF, 62 ohm
R741	24366279	CF, 2.7 ohm
R742	24366279	CF, 2.7 ohm

Location No.	Part No.	Description
R743	24554101	OMF, 100 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
△R801	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R802	24321568	MF, 0.56 ohm, 1/2W
R803	24382683	OMF, 68k ohm, 1W
R805	24552101	OMF, 100 ohm, 1/2W
R806	24552392	OMF, 3900 ohm, 1/2W
R808	24019340	PTC Thermistor, 18 ohm
R810	24007864	Cement, 3 ohm, 15W
R811	24568271	Cement, 270 ohm, 7W
R813	24321159	MF, 1.5 ohm, 1/2W
R814	24366122	CF, 1200 ohm
R815	24552102	OMF, 1k ohm, 1/2W
R816	24323689	MF, 6.8 ohm, 2W
R819	24321209	MF, 2 ohm, 1/2W
R821	24366101	CF, 100 ohm
R822	24552103	OMF, 10k ohm, 1/2W
R823	24366272	CF, 2700 ohm
R824	24569101	Cement, 100 ohm, 10W
R825	24569100	Cement, 10 ohm, 10W
R827	24366681	CF, 680 ohm
R828	24366821	CF, 820 ohm
R831	24366471	CF, 470 ohm
R832	24366472	CF, 4700 ohm
R833	24366222	CF, 2200 ohm
R841	24531120	FR, 12 ohm, 1/2W
R842	24552392	OMF, 3900 ohm, 1/2W
R846	24366561	CF, 560 ohm
R847	24366472	CF, 4700 ohm
R890	24553333	OMF, 33k ohm, 1W
△R899	24005007	Metal-Glazed Resistor, 8.2M ohm, 1W
R901	24376561	CF, 560 ohm, 1/2W
R902	24376561	CF, 560 ohm, 1/2W
R903	24376561	CF, 560 ohm, 1/2W
R904	24366472	CF, 4700 ohm
R905	24366150	CF, 15 ohm
R909	24366222	CF, 2200 ohm
R912	24366102	CF, 1k ohm
R914	24366561	CF, 560 ohm
R915	24366101	CF, 100 ohm
R916	24366241	CF, 240 ohm
R917	24366221	CF, 220 ohm
R918	24366390	CF, 39 ohm
R919	24366102	CF, 1k ohm
R920	24000874	FR, 4.3 ohm, 1W
R921	24366561	CF, 560 ohm
R922	24366101	CF, 100 ohm
R924	24366390	CF, 39 ohm
R925	24366221	CF, 220 ohm
R926	24366102	CF, 1k ohm
R928	24366561	CF, 560 ohm
R929	24366101	CF, 100 ohm
R930	24366390	CF, 39 ohm
R932	24366332	CF, 3300 ohm
R934	24366301	CF, 300 ohm
R935	24366821	CF, 820 ohm
R937	24366221	CF, 220 ohm
R939	24366181	CF, 180 ohm
R942	24366392	CF, 3900 ohm
R943	24366392	CF, 3900 ohm
R944	24366392	CF, 3900 ohm

Location No.	Part No.	Description
R945	24366241	CF, 240 ohm
R946	24366241	CF, 240 ohm
R960	24383153	OMF, 15k ohm, 2W
R961	24383153	OMF, 15k ohm, 2W
R962	24383153	OMF, 15k ohm, 2W
R963	24383153	OMF, 15k ohm, 2W
R964	24383153	OMF, 15k ohm, 2W
R965	24383153	OMF, 15k ohm, 2W
R977	24366122	CF, 1200 ohm
R980	24366471	CF, 470 ohm
R981	24366821	CF, 820 ohm
R982	24366103	CF, 10k ohm
R983	24366222	CF, 2200 ohm
R984	24367152	CF, 1500 ohm, ±2%
R985	24367471	CF, 470 ohm, ±2%
R986	24367681	CF, 680 ohm, ±2%
R987	24367681	CF, 680 ohm, ±2%
R988	24367472	CF, 4700 ohm, ±2%
R989	24367332	CF, 3300 ohm, ±2%
R990	24366242	CF, 2400 ohm
R991	24367681	CF, 680 ohm, ±2%
R992	24366150	CF, 15 ohm
R4370	24366334	CF, 330k ohm
R4371	24366684	CF, 680k ohm
R4372	24366153	CF, 15k ohm
R4373	24366101	CF, 100 ohm
R4374	24366101	CF, 100 ohm
R4375	24366101	CF, 100 ohm
R4378	24366474	CF, 470k ohm
R4379	24366334	CF, 330k ohm
R4380	24366114	CF, 110k ohm
R4381	24366822	CF, 8200 ohm
R4382	24366153	CF, 15k ohm
R4383	24366105	CF, 1M ohm
R4384	24552222	OMF, 2200 ohm, 1/2W
R4386	24366223	CF, 22k ohm
R4490	24382222	OMF, 2200 ohm, 1W
R4492	24366103	CF, 10k ohm
R4493	24382104	OMF, 100k ohm, 1W
RA01	24366102	CF, 1k ohm
RA02	24366103	CF, 10k ohm
RA04	24366102	CF, 1k ohm
RA05	24366102	CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA09	24366102	CF, 1k ohm
RA10	24366101	CF, 100 ohm
RA11	24366272	CF, 2700 ohm
RA12	24366272	CF, 2700 ohm
RA13	24366153	CF, 15k ohm
RA16	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA18	24366102	CF, 1k ohm
RA26	24366102	CF, 1k ohm
RA27	24366102	CF, 1k ohm
RA29	24436221	CD, 220pF
RA30	24366103	CF, 10k ohm
RA33	24366102	CF, 1k ohm
RA35	24366102	CF, 1k ohm
RA36	24366472	CF, 4700 ohm
RA37	24366101	CF, 100 ohm
RA38	24366101	CF, 100 ohm
RA42	24366472	CF, 4700 ohm
RA61	24366103	CF, 10k ohm

Location No.	Part No.	Description
RA62	24366103	CF, 10k ohm
RA63	24366472	CF, 4700 ohm
RA64	24366103	CF, 10k ohm
RA69	24366470	CF, 47 ohm
RA70	24366333	CF, 33k ohm
RA71	24366683	CF, 68k ohm
RA72	24366223	CF, 22k ohm
RA73	24366103	CF, 10k ohm
RA75	24366333	CF, 33k ohm
RA76	24366103	CF, 10k ohm
RA77	24366472	CF, 4700 ohm
RA78	24366472	CF, 4700 ohm
RA509	24366391	CF, 390 ohm
RA510	24366391	CF, 390 ohm
RB01	24366271	CF, 270 ohm
RB02	24366271	CF, 270 ohm
RB09	24366470	CF, 47 ohm
RB10	24366101	CF, 100 ohm
RB11	24366103	CF, 10k ohm
RB30	24366103	CF, 10k ohm
RB40	24366103	CF, 10k ohm
RB41	24366182	CF, 1800 ohm
RB42	24366102	CF, 1k ohm
RB43	24366103	CF, 10k ohm
RB44	24366103	CF, 10k ohm
RB45	24366101	CF, 100 ohm
RD01	24872101	Chip, 100 ohm, 1/16W
RD02	24872101	Chip, 100 ohm, 1/16W
RD03	24872473	Chip, 47k ohm, 1/16W
RD04	24872101	Chip, 100 ohm, 1/16W
RD05	24872101	Chip, 100 ohm, 1/16W
RD06	24872101	Chip, 100 ohm, 1/16W
RD07	24872101	Chip, 100 ohm, 1/16W
RD08	24872101	Chip, 100 ohm, 1/16W
RD28	24872101	Chip, 100 ohm, 1/16W
RD29	24872101	Chip, 100 ohm, 1/16W
RD30	24872223	Chip, 22k ohm, 1/16W
RD31	24872223	Chip, 22k ohm, 1/16W
RD32	24872223	Chip, 22k ohm, 1/16W
RD33	24872101	Chip, 100 ohm, 1/16W
RD34	24872102	Chip, 1k ohm, 1/16W
RD35	24872102	Chip, 1k ohm, 1/16W
RD36	24872101	Chip, 100 ohm, 1/16W
RD37	24872223	Chip, 22k ohm, 1/16W
RD38	24872223	Chip, 22k ohm, 1/16W
RD39	24872101	Chip, 100 ohm, 1/16W
RD40	24872101	Chip, 100 ohm, 1/16W
RF01	24366332	CF, 3300 ohm
RF02	24366102	CF, 1k ohm
RF03	24366101	CF, 100 ohm
RF04	24366273	CF, 27k ohm
RF05	24366103	CF, 10k ohm
RF07	24366102	CF, 1k ohm
RF08	24366103	CF, 10k ohm
RF09	24366101	CF, 100 ohm
RF11	24366103	CF, 10k ohm
RF12	24552682	OMF, 6800 ohm, 1/2W
RF14	24366101	CF, 100 ohm
RF15	24366101	CF, 100 ohm
RF16	24366101	CF, 100 ohm
RF17	24366102	CF, 1k ohm
RF18	24366152	CF, 1500 ohm
RF19	24366122	CF, 1200 ohm
RF20	24366471	CF, 470 ohm

Location No.	Part No.	Description
RF22	24366271	CF, 270 ohm
RF23	24366821	CF, 820 ohm
RF97	24366102	CF, 1k ohm
RF98	24366102	CF, 1k ohm
RF99	24366102	CF, 1k ohm
RR02	24366472	CF, 4700 ohm
RR04	24366333	CF, 33k ohm
RR05	24366103	CF, 10k ohm
RR16	24366821	CF, 820 ohm
RR17	24366821	CF, 820 ohm
RR18	24366821	CF, 820 ohm
RR20	24366103	CF, 10k ohm
RR28	24366473	CF, 47k ohm
RR29	24366473	CF, 47k ohm
RR33	24366101	CF, 100 ohm
RS01	24366681	CF, 680 ohm
RS02	24366681	CF, 680 ohm
RS03	24366101	CF, 100 ohm
RS04	24366101	CF, 100 ohm
RS05	24366472	CF, 4700 ohm
RS06	24366472	CF, 4700 ohm
RS07	24366472	CF, 4700 ohm
RS08	24366472	CF, 4700 ohm
RS09	24366472	CF, 4700 ohm
RS10	24366472	CF, 4700 ohm
RS11	24366101	CF, 100 ohm
RS13	24366101	CF, 100 ohm
RS14	24366101	CF, 100 ohm
RS15	24366104	CF, 100k ohm
RS16	24366104	CF, 100k ohm
RS17	24366223	CF, 22k ohm
RS18	24366223	CF, 22k ohm
RS19	24366102	CF, 1k ohm
RS20	24366102	CF, 1k ohm
RS21	24366222	CF, 2200 ohm
RS22	24366222	CF, 2200 ohm
RS23	24366101	CF, 100 ohm
RS24	24366101	CF, 100 ohm
RS27	24366104	CF, 100k ohm
RS28	24366104	CF, 100k ohm
RS29	24366223	CF, 22k ohm
RS30	24366223	CF, 22k ohm
RS31	24366103	CF, 10k ohm
RS32	24366104	CF, 100k ohm
RS35	24366223	CF, 22k ohm
RS36	24366223	CF, 22k ohm
RS37	24366104	CF, 100k ohm
RS38	24366104	CF, 100k ohm
RS43	24366681	CF, 680 ohm
RS44	24366681	CF, 680 ohm
RS45	24366681	CF, 680 ohm
RS46	24366681	CF, 680 ohm
RT40	24366101	CF, 100 ohm
RV01	24366101	CF, 100 ohm
RV02	24366101	CF, 100 ohm
RV02	24366682	CF, 6800 ohm
RV03	24366101	CF, 100 ohm
RV04	24366101	CF, 100 ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366162	CF, 1600 ohm
RV08	24366162	CF, 1600 ohm
RV09	24366101	CF, 100 ohm
RV10	24366271	CF, 270 ohm

Location No.	Part No.	Description
RV10	24366101	CF, 100 ohm
RV12	24366271	CF, 270 ohm
RV12	24366681	CF, 680 ohm
RV13	24366681	CF, 680 ohm
RV14	24366271	CF, 270 ohm
RV18	24366123	CF, 12k ohm
RV19	24366101	CF, 100 ohm
RV22	24366102	CF, 1k ohm
RV23	24552101	OMF, 100 ohm, 1/2W
RV25	24366101	CF, 100 ohm
RV26	24366181	CF, 180 ohm
RV27	24366750	CF, 75 ohm
RV28	24366683	CF, 68k ohm
RV29	24366273	CF, 27k ohm
RV30	24366750	CF, 75 ohm
RV32	24366750	CF, 75 ohm
RV33	24366123	CF, 12k ohm
RV34	24366123	CF, 12k ohm
RV35	24366103	CF, 10k ohm
RV36	24366101	CF, 100 ohm
RV38	24366750	CF, 75 ohm
RV40	24366471	CF, 470 ohm
RV60	24366471	CF, 470 ohm
RV61	24552101	OMF, 100 ohm, 1/2W
RV62	24366101	CF, 100 ohm
RV63	24552151	OMF, 150 ohm, 1/2W
RV64	24366750	CF, 75 ohm
RV65	24552101	OMF, 100 ohm, 1/2W
RV66	24366101	CF, 100 ohm
RV67	24552151	OMF, 150 ohm, 1/2W
RV68	24366750	CF, 75 ohm
RV70	24366101	CF, 100 ohm
RV71	24366472	CF, 4700 ohm
RV72	24366103	CF, 10k ohm
RV78	24366221	CF, 220 ohm
RV79	24366680	CF, 68 ohm
RV80	24366102	CF, 1k ohm
RV81	24366472	CF, 4700 ohm
RV81	24366750	CF, 75 ohm
RV82	24366153	CF, 15k ohm
RV83	24366103	CF, 10k ohm
RV85	24366910	CF, 91 ohm
RV86	24366910	CF, 91 ohm
RV87	24366910	CF, 91 ohm
RV89	24366750	CF, 75 ohm
RV90	24366681	CF, 680 ohm
RV91	24366681	CF, 680 ohm
RV98	24366101	CF, 100 ohm
RV98	24366750	CF, 75 ohm
RZ01	24366471	CF, 470 ohm
RZ02	24366152	CF, 1500 ohm
RZ04	24366332	CF, 3300 ohm
RZ05	24366332	CF, 3300 ohm
RZ06	24366821	CF, 820 ohm
RZ07	24366272	CF, 2700 ohm
RZ08	24366332	CF, 3300 ohm
RZ12	24366471	CF, 470 ohm
RZ18	24366821	CF, 820 ohm
RZ19	24366471	CF, 470 ohm
RZ20	24366122	CF, 1200 ohm
RZ21	24366680	CF, 68 ohm
RZ22	24366101	CF, 100 ohm
RZ23	24366821	CF, 820 ohm
RZ24	24366821	CF, 820 ohm

Location No.	Part No.	Description
RZ25	24366101	CF, 100 ohm
RZ26	24366101	CF, 100 ohm
RZ28	24366821	CF, 820 ohm
RZ29	24366331	CF, 330 ohm
RZ30	24366331	CF, 330 ohm
RZ31	24366102	CF, 1k ohm
COILS & TRANSFORMERS		
L101	23221803	Coil, Choke, TLN3040D
L301	23103859	Coil (Ferrite Bead), TEM2011
L410	23103859	Coil (Ferrite Bead), TEM2011
L442	23248117	Coil, Choke, TLN3382D
L443	23221684	Coil, Choke, TLN3191D
L446	23222655	Coil, Width, TLN2074
L449	23103859	Coil (Ferrite Bead), TEM2011
L461	23248111	Coil, Choke, TLN3349D
L491	23248183	Coil, Choke, TLN3343AD
L503	23289100	Coil, Peaking, TRF4100AF
L505	23289100	Coil, Peaking, TRF4100AF
L507	23238715	Coil, Peaking, TRF4829AJ
L508	23289100	Coil, Peaking, TRF4100AF
L643	23103859	Coil (Ferrite Bead), TEM2011
L645	23103859	Coil (Ferrite Bead), TEM2011
L671	23103859	Coil (Ferrite Bead), TEM2011
L672	23103859	Coil (Ferrite Bead), TEM2011
L676	23238562	Coil, Peaking, TRF4109AJ
L677	23238720	Coil, Peaking, TRF4339AJ
L682	23238562	Coil, Peaking, TRF4109AJ
L683	23238562	Coil, Peaking, TRF4109AJ
L684	23238562	Coil, Peaking, TRF4109AJ
L685	23238562	Coil, Peaking, TRF4109AJ
L702	23261974	Coil, Choke, HC5-035
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L811	23103859	Coil (Ferrite Bead), TEM2011
L814	23221747	Coil, Choke, TRF9253D
L815	23103937	Coil (Ferrite Bead), TEM2004
L871	23144539	Protector, PRF20005491, 125V, 2A
L875	23280016	Coil, Peaking, TRF4100AZ
L876	23289100	Coil, Peaking, TRF4100AF
L883	23221747	Coil, Choke, TRF9253D
L885	23248073	Coil, Choke, TLN3299D
L886	23103859	Coil (Ferrite Bead), TEM2011
L889	23222694	Coil, Width, TLN2026
L891	23103859	Coil (Ferrite Bead), TEM2011
L892	23103859	Coil (Ferrite Bead), TEM2011
L893	23280016	Coil, Peaking, TRF4100AZ
L894	23289100	Coil, Peaking, TRF4100AF
L896	23103859	Coil (Ferrite Bead), TEM2011
L897	23222694	Coil, Width, TLN2026
△L901	23200309	Coil, Degaussing, TSB-2374AR
L902	23289101	Coil, Peaking, TRF4101AF
L903	23289101	Coil, Peaking, TRF4101AF
L904	23289101	Coil, Peaking, TRF4101AF
L905	23289390	Coil, Peaking, TRF4390AF
L906	23289390	Coil, Peaking, TRF4390AF
L907	23289390	Coil, Peaking, TRF4390AF
L908	23289100	Coil, Peaking, TRF4100AF
L910	23289829	Coil, Peaking, TRF48R2AF
L4370	23289101	Coil, Peaking, TRF4101AF
LA01	23289100	Coil, Peaking, TRF4100AF
LB01	23262661	Coil, IF, TRF1155D
LC05	23238562	Coil, Peaking, TRF4109AJ

Location No.	Part No.	Description
LC06	23103859	Coil (Ferrite Bead), TEM2011
LC07	23238562	Coil, Peaking, TRF4109AJ
LC08	23238562	Coil, Peaking, TRF4109AJ
LD01	23238714	Coil, Peaking, TRF4100AJ
LD02	23238714	Coil, Peaking, TRF4100AJ
LD20	23103859	Coil (Ferrite Bead), TEM2011
LD21	23238714	Coil, Peaking, TRF4100AJ
LF01	23238720	Coil, Peaking, TRF4339AJ
LF02	23238562	Coil, Peaking, TRF4109AJ
LF03	23289150	Coil, Peaking, TRF4150AF
LF07	23238714	Coil, Peaking, TRF4100AJ
LF08	23103859	Coil (Ferrite Bead), TEM2011
LF10	23238506	Coil, Peaking, TRF4229AJ
LF12	23238506	Coil, Peaking, TRF4229AJ
LF13	23238506	Coil, Peaking, TRF4229AJ
LF97	23238714	Coil, Peaking, TRF4100AJ
LF98	23238714	Coil, Peaking, TRF4100AJ
LF99	23238714	Coil, Peaking, TRF4100AJ
LV06	23238562	Coil, Peaking, TRF4109AJ
LV07	23238562	Coil, Peaking, TRF4109AJ
LV09	23289100	Coil, Peaking, TRF4100AF
LV10	24366101	CF, 100 ohm
LV11	24366101	CF, 100 ohm
LV12	24366101	CF, 100 ohm
LV42	23289100	Coil, Peaking, TRF4100AF
LV43	23289100	Coil, Peaking, TRF4100AF
LV49	23103824	Filter, TEM2028K
LZ01	23238712	Coil, Peaking, TRF4150AJ
LZ02	23238716	Coil, Peaking, TRF4689AJ
LZ03	23238716	Coil, Peaking, TRF4689AJ
LZ04	23238562	Coil, Peaking, TRF4109AJ
LZ05	23238716	Coil, Peaking, TRF4689AJ
LZ06	23238709	Coil, Peaking, TRF4270AJ
LZ07	23238709	Coil, Peaking, TRF4270AJ
LZ08	23238707	Coil, Peaking, TRF4390AJ
LZ09	70131060	Filter, ZBF253D-00
LZ10	70131060	Filter, ZBF253D-00
T401	23224336	Transformer, Horiz. Drive, TLN1083
△T461	23236447	Transformer, Flyback, TFB4115AR
△T461A	23236447	Transformer, Flyback, TFB4115AR
△T461B	23236447	Transformer, Flyback, TFB4115AR
△T461C	23236447	Transformer, Flyback, TFB4115AR
T801	23211670	Line Filter, TRF3164G
T802	23211670	Line Filter, TRF3164G
T804	23211670	Line Filter, TRF3164G
△T863	23217359	Transformer, Converter, TPW3374AG
SEMICONDUCTORS		
Q200	A6330059	Transistor, 2SC2482(C)
Q201	A6534053	Transistor, 2SA1015-Y(TE)
Q204	A6317440	Transistor, 2SC1815-Y
Q205	A6317440	Transistor, 2SC1815-Y
Q270	A6002040	Transistor, RN1204
Q271	A6002040	Transistor, RN1204
Q272	A6012040	Transistor, RN2204
Q273	23314794	Transistor, 2PC1815Y
Q301	B0378560	IC, TA8427K
Q301B	70391355	Screw, BITTB3X8SZN

Location No.	Part No.	Description
Q360	23314794	Transistor, 2PC1815Y
Q361	23314794	Transistor, 2PC1815Y
Q363	A6317440	Transistor, 2SC1815-Y
Q370	A6534053	Transistor, 2SA1015-Y(TE)
Q392	A6002020	Transistor, RN1202
Q402	A6325413	Transistor, 2SC2235-O
Q404	A6872801	Transistor, 2SD2253(FA)
Q404D	72471082	Screw, BRDT2W3X10 SZN
Q420	23314141	Transistor, 2SC3852
Q420B	70391355	Screw, BITTB3X8SZN
Q421	A6317440	Transistor, 2SC1815-Y
Q430	23314141	Transistor, 2SC3852
Q460	23314850	Transistor, 2SA1788-E
Q460B	23037312	Screw, PB4X07X10SBN
Q462	A6317440	Transistor, 2SC1815-Y
Q476	A6317440	Transistor, 2SC1815-Y
Q477	A6317440	Transistor, 2SC1815-Y
Q487	A6317440	Transistor, 2SC1815-Y
Q488	A6002040	Transistor, RN1204
Q489	A6012020	Transistor, RN2202
Q501	B0101527	IC, TB1230N
Q502	A6317440	Transistor, 2SC1815-Y
Q503	A6317440	Transistor, 2SC1815-Y
Q504	23314794	Transistor, 2PC1815Y
Q611	A6534053	Transistor, 2SA1015-Y(TE)
Q612	A6534053	Transistor, 2SA1015-Y(TE)
Q640	B0376856	IC, TA8211AH
Q640B	70391355	Screw, BITTB3X8SZN
Q641	A6342206	Transistor, 2SC2878-A(TE)
Q642	A6342206	Transistor, 2SC2878-A(TE)
Q670	B0377308	IC, TA8256BH
Q670B	70391355	Screw, BITTB3X8SZN
Q671	A6342206	Transistor, 2SC2878-A(TE)
Q672	A6342206	Transistor, 2SC2878-A(TE)
Q673	A6342206	Transistor, 2SC2878-A(TE)
Q688	A6002040	Transistor, RN1204
Q705	A6317440	Transistor, 2SC1815-Y
Q706	A6317440	Transistor, 2SC1815-Y
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	A6317440	Transistor, 2SC1815-Y
Q710	A6534053	Transistor, 2SA1015-Y(TE)
Q711	23314911	Transistor, 2SB1569A
Q712	23314914	Transistor, 2SD2400A
Q719	A6317440	Transistor, 2SC1815-Y
Q720	A6317440	Transistor, 2SC1815-Y
Q801	23905084	IC, STR-S6709
Q801B	72471082	Screw, BRDT2W3X10 SZN
Q802	23314141	Transistor, 2SC3852
△Q826	A8643108	Photo Coupler, TLP621(GR-LF)
Q831	23314141	Transistor, 2SC3852
Q831B	70391355	Screw, BITTB3X8SZN
Q832	23905977	IC, PQ09RD11
Q832B	70391356	Screw, BITTB3X10 SZN
Q840	23318299	IC, L78MR05
Q901	23314811	Transistor, 2SC5147
Q902	A6317440	Transistor, 2SC1815-Y
Q903	23314811	Transistor, 2SC5147
Q904	A6317440	Transistor, 2SC1815-Y
Q905	23314811	Transistor, 2SC5147
Q906	A6317440	Transistor, 2SC1815-Y
Q907	A6509154	Transistor, 2SA562TM-Y(T)
Q908	A6321265	Transistor, 2SC2120-Y(TE)
Q910	A6317440	Transistor, 2SC1815-Y
Q911	A6317440	Transistor, 2SC1815-Y

Location No.	Part No.	Description
Q912	A6534053	Transistor, 2SA1015-Y(TE
Q913	A6534053	Transistor, 2SA1015-Y(TE
Q914	A6317440	Transistor, 2SC1815-Y
Q4370	B0385853	IC, TA1241AN
Q4371	A6317440	Transistor, 2SC1815-Y
Q4490	A8641063	Photo Coupler, TLP521-1
Q4491	23314917	Transistor, 2SK2003-01MR
Q4493	A6002060	Transistor, RN1206
QA01	23906725	IC, TMP87CS38N-3600
QA02	23904666	IC, NM24C08EN
QA03	A6002040	Transistor, RN1204
QA04	A6002040	Transistor, RN1204
QA04	A6317440	Transistor, 2SC1815-Y
QB01	A6317440	Transistor, 2SC1815-Y
QB30	A6317440	Transistor, 2SC1815-Y
QD01	B0413738	IC, TC9337F-024(
QD20	A6030620	IC, TC7S04F
QD30	B0385643	IC, TA1216AN
QF01	23904899	IC, SAA5281ZP/E
QF03	A6534053	Transistor, 2SA1015-Y(TE
QF07	A6317440	Transistor, 2SC1815-Y
QF08	A6534053	Transistor, 2SA1015-Y(TE
QF11	A6002020	Transistor, RN1202
QF12	A6002040	Transistor, RN1204
QR01	70129053	IC, BA7603
QR03	A6734590	Transistor, 2SC752(G)TM-Y
QR07	A6002040	Transistor, RN1204
QR21	A6317440	Transistor, 2SC1815-Y
QS01	A6342206	Transistor, 2SC2878-A(TE
QS02	A6342206	Transistor, 2SC2878-A(TE
QS03	A6342206	Transistor, 2SC2878-A(TE
QS04	A6342206	Transistor, 2SC2878-A(TE
QS05	A6342206	Transistor, 2SC2878-A(TE
QS06	A6342206	Transistor, 2SC2878-A(TE
QS07	A6010040	Transistor, RN2004
QS08	A6342206	Transistor, 2SC2878-A(TE
QS09	A6342206	Transistor, 2SC2878-A(TE
QV01	B0385650	IC, TA1218N
QV02	A6317440	Transistor, 2SC1815-Y
QV06	A6534053	Transistor, 2SA1015-Y(TE
QV09	A6317440	Transistor, 2SC1815-Y
QV10	A6317440	Transistor, 2SC1815-Y
QV12	A6317440	Transistor, 2SC1815-Y
QV14	A6317440	Transistor, 2SC1815-Y
QV20	A6002040	Transistor, RN1204
QV21	A6002040	Transistor, RN1204
QV80	A6534053	Transistor, 2SA1015-Y(TE
QZ01	B0410688	IC, TC9090AN
QZ02	A6317440	Transistor, 2SC1815-Y
QZ03	A6317440	Transistor, 2SC1815-Y
QZ04	A6317440	Transistor, 2SC1815-Y
QZ06	A6317440	Transistor, 2SC1815-Y
D101	23316411	Diode, 1SS184
D201	23316687	Diode, Zener, MTZJ9.1B
D202	23316687	Diode, Zener, MTZJ9.1B
D203	23316687	Diode, Zener, MTZJ9.1B
D204	23115599	Diode, 1N4148
D301	23118479	Diode, BYD33J
D302	23118479	Diode, BYD33J
D303	23316794	Diode, SC570A
D308	23118479	Diode, BYD33J
D309	23118479	Diode, BYD33J
D370	23316658	Diode, Zener, MTZJ3.6A
D371	23115599	Diode, 1N4148

Location No.	Part No.	Description
D391	23316653	Diode, Zener, MTZJ2.7B
D401	23316685	Diode, Zener, MTZJ8.2C
D401	23316653	Diode, Zener, MTZJ2.7B
D403	23316667	Diode, Zener, MTZJ4.7C
D404	23115599	Diode, 1N4148
D405	23115599	Diode, 1N4148
D406	23118479	Diode, BYD33J
D408	23115599	Diode, 1N4148
D413	23115599	Diode, 1N4148
D421	23316672	Diode, Zener, MTZJ5.6B
D422	23316743	Diode, Zener, MTZJ24C
D422	23316726	Diode, Zener, MTZJ15C
D431	23316670	Diode, Zener, MTZJ5.1C
D432	23316670	Diode, Zener, MTZJ5.1C
D436	23115599	Diode, 1N4148
D441	23316687	Diode, Zener, MTZJ9.1B
D460	23118479	Diode, BYD33J
D461	23316803	Diode, FMU-G16S
D463	23115599	Diode, 1N4148
D464	23316718	Diode, Zener, MTZJ12A
D466	23316672	Diode, Zener, MTZJ5.6B
D467	23118479	Diode, BYD33J
D486	23316731	Diode, Zener, MTZJ18B
D490	23115599	Diode, 1N4148
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
D613	23115599	Diode, 1N4148
D615	23115599	Diode, 1N4148
D617	23115599	Diode, 1N4148
D618	23115599	Diode, 1N4148
D620	23115599	Diode, 1N4148
D621	23115599	Diode, 1N4148
D622	23115599	Diode, 1N4148
D640	23115599	Diode, 1N4148
D641	23115599	Diode, 1N4148
D642	23115599	Diode, 1N4148
D643	23115599	Diode, 1N4148
D670	23115599	Diode, 1N4148
D671	23115599	Diode, 1N4148
D674	23115599	Diode, 1N4148
D675	23115599	Diode, 1N4148
D683	23115599	Diode, 1N4148
D684	23115599	Diode, 1N4148
D685	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D720	23115599	Diode, 1N4148
D721	23115599	Diode, 1N4148
D801	23316795	Diode, D6SB60L, F05
D803	23118479	Diode, BYD33J
D804	23316678	Diode, Zener, MTZJ6.8B
D805	23115599	Diode, 1N4148
D806	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D810	23115599	Diode, 1N4148
D811	23115599	Diode, 1N4148
D812	23118451	Diode, RU-4A
D815	23316725	Diode, Zener, MTZJ15B
D828	23115599	Diode, 1N4148
D871	23118479	Diode, BYD33J
D883	23316406	Diode, FML-G16S
D883B	70391355	Screw, BITTB3X8SZN
D885	23316184	Diode, FML-G12S

Location No.	Part No.	Description
D885B	70391355	Screw, BITTB3X8SZN
D891	23316184	Diode, FML-G12S
D892	23316184	Diode, FML-G12S
D893	23316673	Diode, Zener, MTZJ5.6C
D896	23118479	Diode, BYD33J
D901	23115599	Diode, 1N4148
D903	23115599	Diode, 1N4148
D904	23115599	Diode, 1N4148
D905	23115599	Diode, 1N4148
D906	23115599	Diode, 1N4148
D907	23115599	Diode, 1N4148
D908	23115599	Diode, 1N4148
D909	23115599	Diode, 1N4148
D910	23115599	Diode, 1N4148
D911	23118479	Diode, BYD33J
D4371	23115599	Diode, 1N4148
D4386	23316718	Diode, Zener, MTZJ12A
D4387	23316718	Diode, Zener, MTZJ12A
D4388	23316718	Diode, Zener, MTZJ12A
D4399	23115599	Diode, 1N4148
DA30	23316687	Diode, Zener, MTZJ9.1B
DB01	23358505	LED, SLR56VC196F
DB02	23358503	LED, SCL003MC3FX
DB30	23115599	Diode, 1N4148
DR02	23115599	Diode, 1N4148
DR03	23316666	Diode, Zener, MTZJ4.7B
DR06	23115599	Diode, 1N4148
DV01	23316687	Diode, Zener, MTZJ9.1B
DV02	23316687	Diode, Zener, MTZJ9.1B
DV03	23316687	Diode, Zener, MTZJ9.1B
DV04	23316687	Diode, Zener, MTZJ9.1B
DV05	23316687	Diode, Zener, MTZJ9.1B
DV06	23316687	Diode, Zener, MTZJ9.1B
DV07	23316687	Diode, Zener, MTZJ9.1B
DV10	23115599	Diode, 1N4148
DV11	23115599	Diode, 1N4148
DV12	23316687	Diode, Zener, MTZJ9.1B
DV80	23115599	Diode, 1N4148
DZ01	23316690	Diode, Zener, MTZJ10B
MISCELLANEOUS		
B202	23470435	Frame, Terminal
B221	23037312	Screw, PB4X07X10SBN
B223	23035412	Screw, BTB4X12SZN
B224	23035312	Screw, BTB3X12SZN
BB00	23903022	Socket, 8P, 2.5
BB00A	23368627	Plug, 8P, 2.5
BB01	23903022	Socket, 8P, 2.5
BB10	23903022	Socket, 8P, 2.5
BB10A	23368627	Plug, 8P, 2.5
BB11	23903022	Socket, 8P, 2.5
BB20	23903022	Socket, 8P, 2.5
BB20A	23368627	Plug, 8P, 2.5
BB21	23903022	Socket, 8P, 2.5
BB30	23903022	Socket, 8P, 2.5
BB30A	23368627	Plug, 8P, 2.5
BB31	23903022	Socket, 8P, 2.5
BB40	23903022	Socket, 8P, 2.5
BB40A	23368627	Plug, 8P, 2.5
BB41	23903022	Socket, 8P, 2.5
BB50	23903022	Socket, 8P, 2.5
BB50A	23368627	Plug, 8P, 2.5
BB51	23903022	Socket, 8P, 2.5
BB60	23903022	Socket, 8P, 2.5

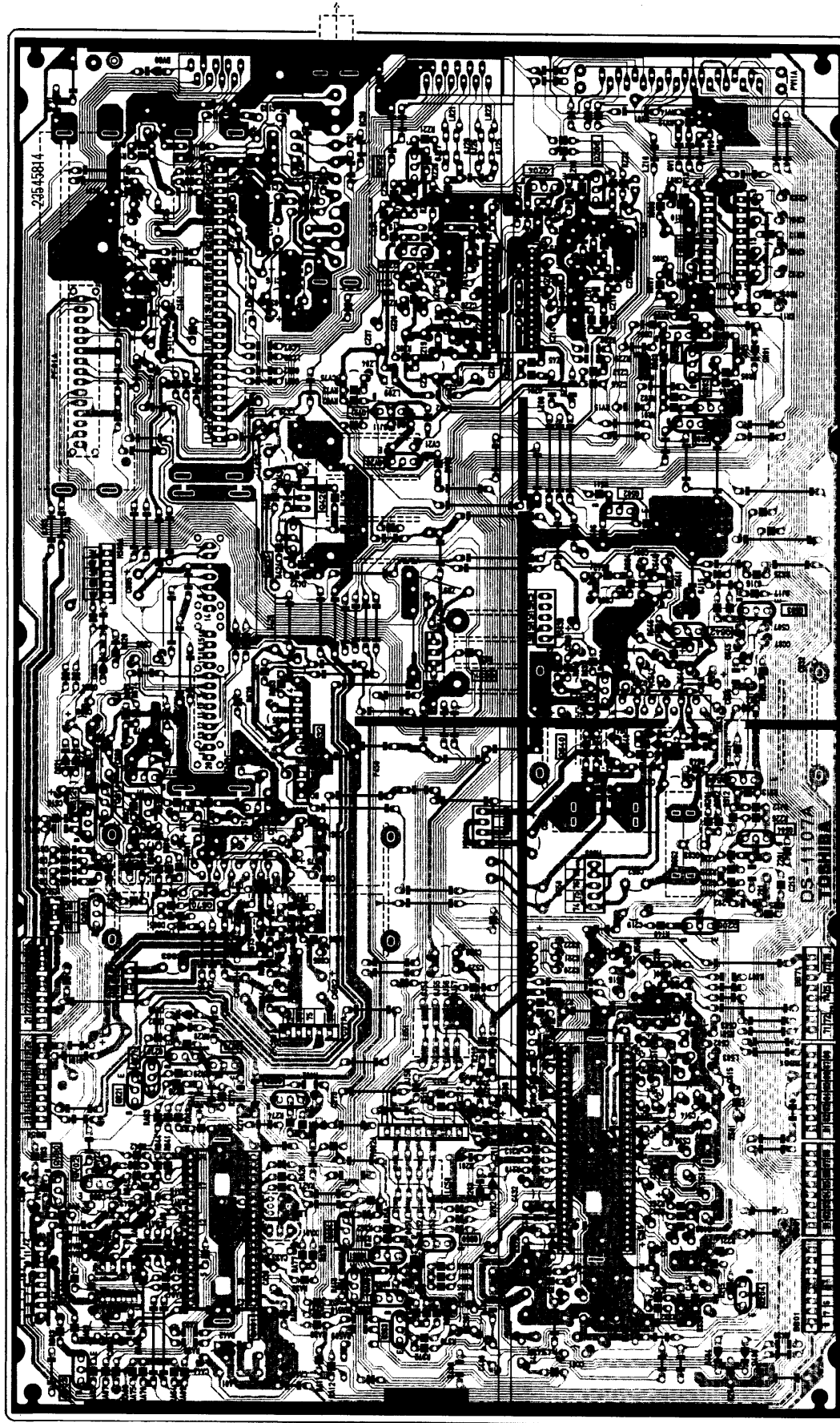
Location No.	Part No.	Description
BB60A	23368627	Plug, 8P, 2.5
BB61	23903022	Socket, 8P, 2.5
BB70	23903022	Socket, 8P, 2.5
BB70A	23368627	Plug, 8P, 2.5
BB71	23903022	Socket, 8P, 2.5
BB80	23903022	Socket, 8P, 2.5
BB80A	23368627	Plug, 8P, 2.5
BB81	23903022	Socket, 8P, 2.5
BB90	23903022	Socket, 8P, 2.5
BB90A	23368627	Plug, 8P, 2.5
BB91	23903022	Socket, 8P, 2.5
△F470	23144503	Fuse, 1.25A
F470A	23165433	Holder, Fuse
△F801	23144507	Fuse, 3.15A
F801A	23165433	Holder, Fuse
△F802	23144506	Fuse, 2.5A
F802A	23165433	Holder, Fuse
△F889	23144458	Fuse, 5.0A
F889A	23165433	Holder, Fuse
G465	23316672	Diode, Zener, MTZJ5.6B
G491	A7568460	Diode, TVR-1B
G601	23238714	Coil, Peaking, TRF4100AJ
G602	23238714	Coil, Peaking, TRF4100AJ
GF01	24366822	CF, 8200 ohm
GF02	24366822	CF, 8200 ohm
GF03	24366822	CF, 8200 ohm
GJ10	24366101	CF, 100 ohm
GV05	23238562	Coil, Peaking, TRF4109AJ
GV13	24366681	CF, 680 ohm
GV17	23289109	Coil, Peaking, TRF41R0AF
GV80	24366681	CF, 680 ohm
GV81	24366681	CF, 680 ohm
H002	23148312	Module, MVGS48A, IFUK MPX A-PRO
JP034	24366561	CF, 560 ohm
KB01	23904946	Remote Sensor, RPM-676CBR-S
P004	23161702	Terminal, 8P
P661	23363607	Headphone Jack, 3.5mm
△P801	23372012	Power Cord
P831A	23164965	Plug, 4P
P831B	23164965	Plug, 4P
PD30	23368005	Plug, 6P, 2.5MM
PD30A	23902063	Socket, 6P, 2.5MM
PD31	23368511	Plug, 7P 2.5MM
PD31A	23902852	Socket, 7P 2.5MM
PF01A	23367724	Connector, B-B, 15P
PF01A	23902655	Socket, B-B, 15P
PV03	23365515	Jack, SVHS
PV04	23363252	Pin Jack, Yellow
PV05	23365508	Jack, Phono
PV11A	23902863	Socket, 20P 2MM
PV11B	23368520	Plug, 20P 2MM
S601	23145355	Switch, Slide, 4C-2P
△S801	23344395	Switch, Power
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P
SA04	23145430	Switch, Push, 1C1P
SA06	23145430	Switch, Push, 1C1P
△V901A	23902891	Socket, CRT, 10P
W008	23351002	Speaker, SPK-1276, 80x80mm, 8 ohm

Location No.	Part No.	Description
W661	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W662	23351116	Speaker, SPK-1382, 60x120mm, 8 ohm
W663	23351107	Speaker, SPK-1374, 60x120mm, 8 ohm
W664	23351107	Speaker, SPK-1374, 60x120mm, 8 ohm
W665	23351080	Speaker, SPK-1352, 100x100mm, 6 ohm
X501	23153438	Crystal, 16.2
XA01	23153325	Ceramic Resonator, 8.00M, TCR1056
XF01	23153472	Crystal, 27M
Z420	23144539	Protector, PRF20005491, 125V, 2A
△Z430	23144536	Protector, PRF10005491, 125V, 1A
Z801	23103839	Filter, TFE1012
Z801	23904998	IC, HIC1016
△Z890	23144543	Protector, PRF50005491, 125V, 5A
△Z891	23144543	Protector, PRF50005491, 125V, 5A
Z897	23144539	Protector, PRF20005491, 125V, 2A
Z902	23103839	Filter, TFE1012
ZD01	23153671	Ceramic Resonator, TCR1034
ZT01	23153736	Ceramic Resonator, TCR1025
PC BOARD ASSEMBLIES		
* U101A	23706499	Chip Dolby Board, PB7205X
* U901	23782399	CRT Drive Board, PB7201S
* U902	23709634	Signal Board, PB8357
* U903	23702386	Power Board, PB8358
* U904	23709633	Def Board, PB8359
* U905	23702387	Back-TER Board, PB8360
* U917	23536702	Text Board, PB8114A
PICTURE TUBE		
△V901	23312797	Picture Tube, W66ESF002X13
TUNER		
H001	23321289	Tuner, UF812BLX3
ACCESSORIES		
K902	23306176	Remote Hand Unit, CT-9868
AT04	23305572	Battery Cover
Y101	23563462	Owner's Manual, English, 28W8DB

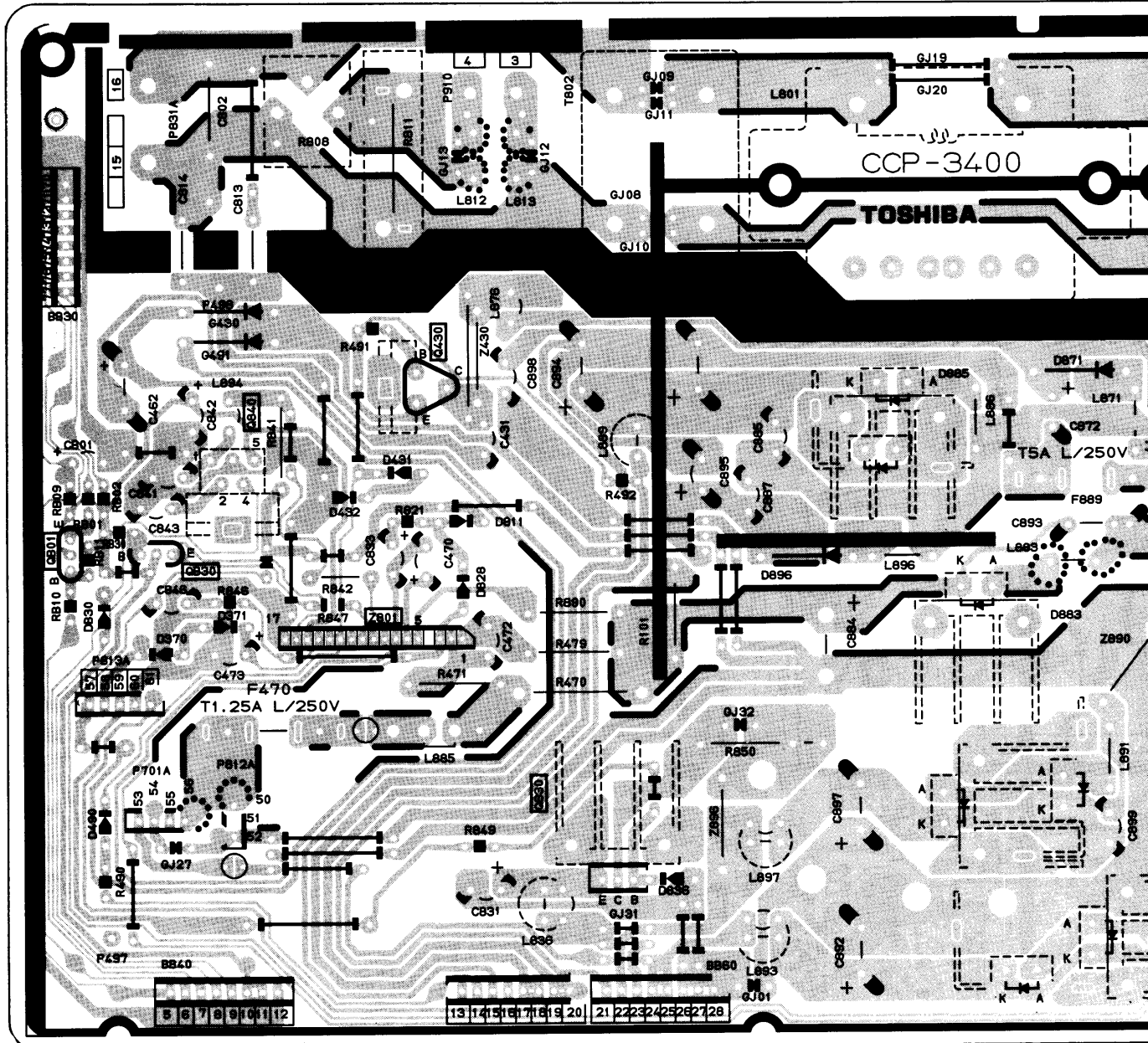
Location No.	Part No.	Description
CABINET PARTS		
A214	23035412	Screw, BTB4X12SZN
A215	23035412	Screw, BTB4X12SZN
A340	23410676	SP Box (Front)
A341	23426411	SP Box (Back)
A343	23948114	Wire Assy, Speaker
A344	23466653	Bushing
A345	23421715	Plug
A346	23035310	Screw, BTB3X10SZN
△A401	23427107	Back Cover
A501	23030187	Screw, CRT5X30
A702	23935625	Packing, Bottom
A703	23935626	Packing, Top

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BLANK.**

SIGNAL BOARD PB8357
BOTTOM (FOIL) SIDE

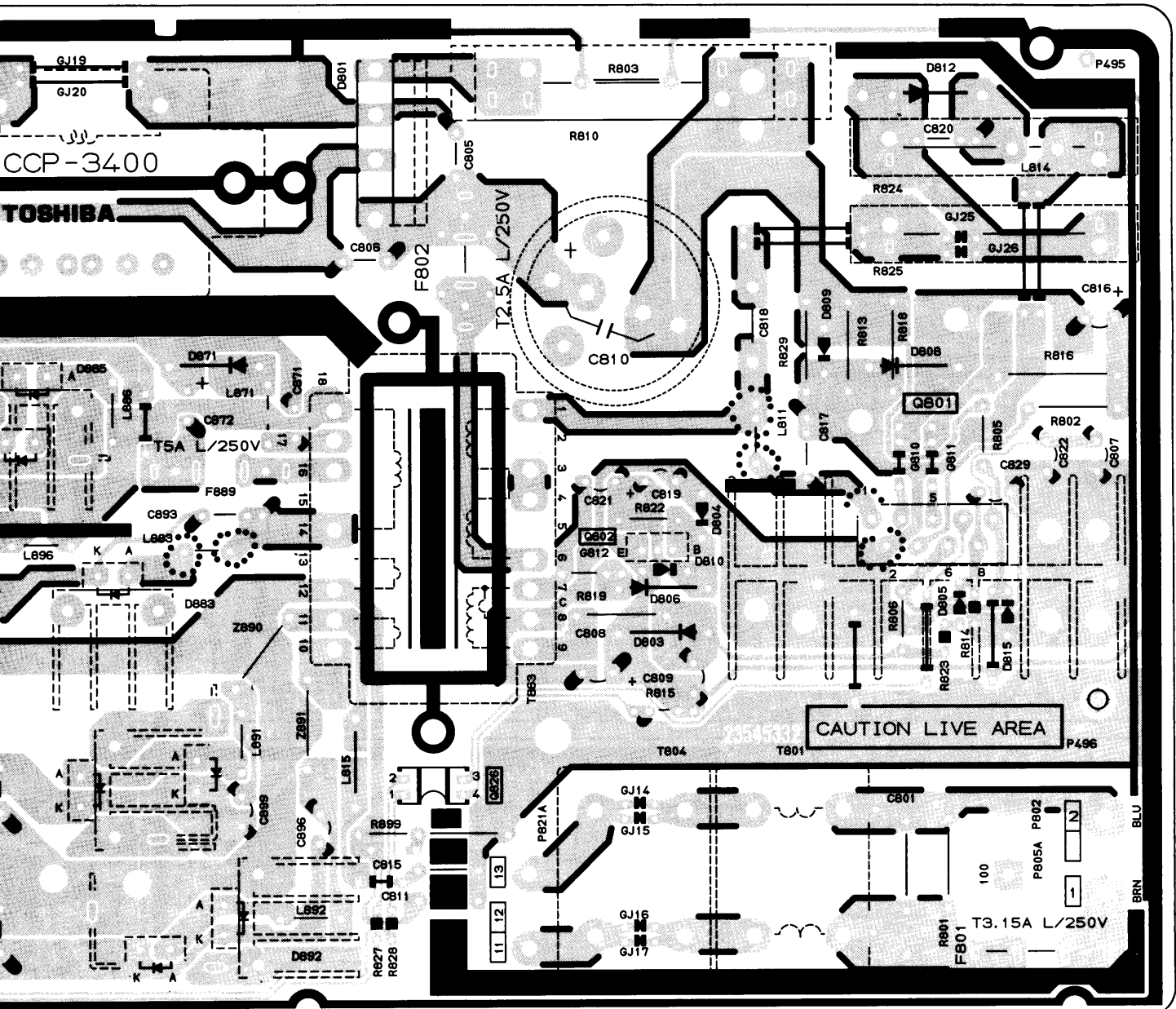


POWER BOARD PB
BOTTOM (FOIL) SIDE

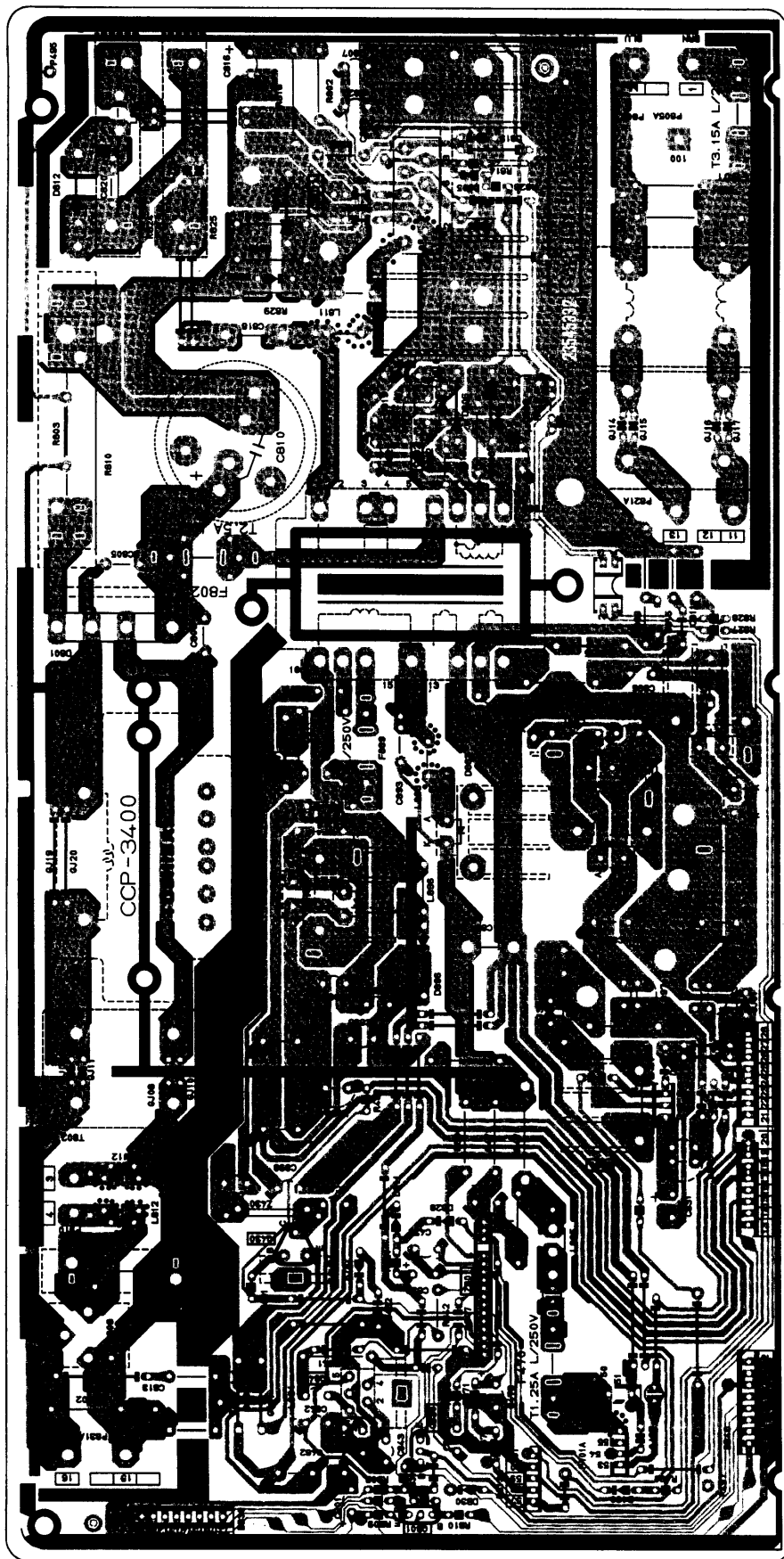


POWER BOARD PB8358

BOTTOM (FOIL) SIDE

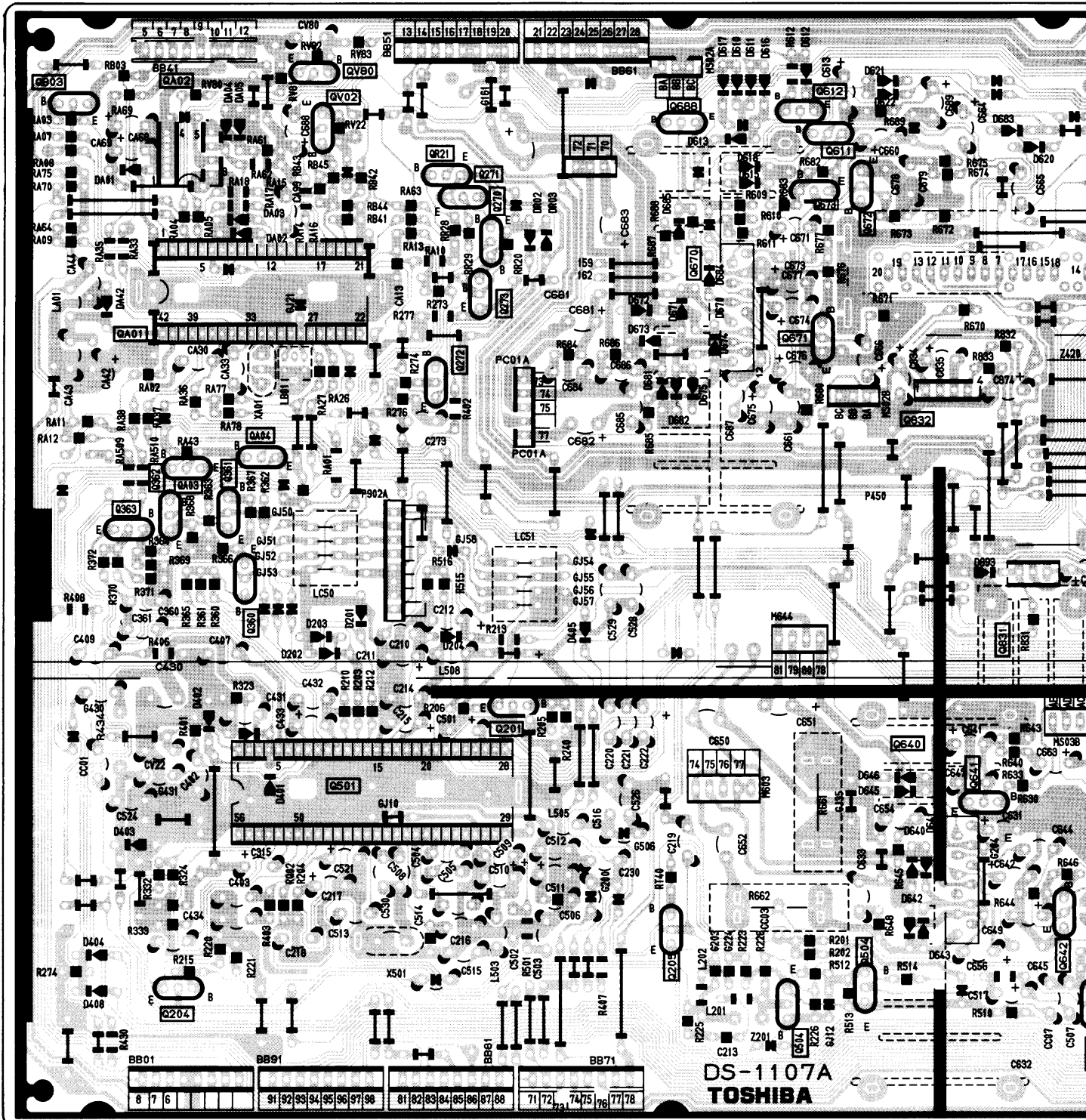


POWER BOARD PB8358
BOTTOM (FOIL) SIDE



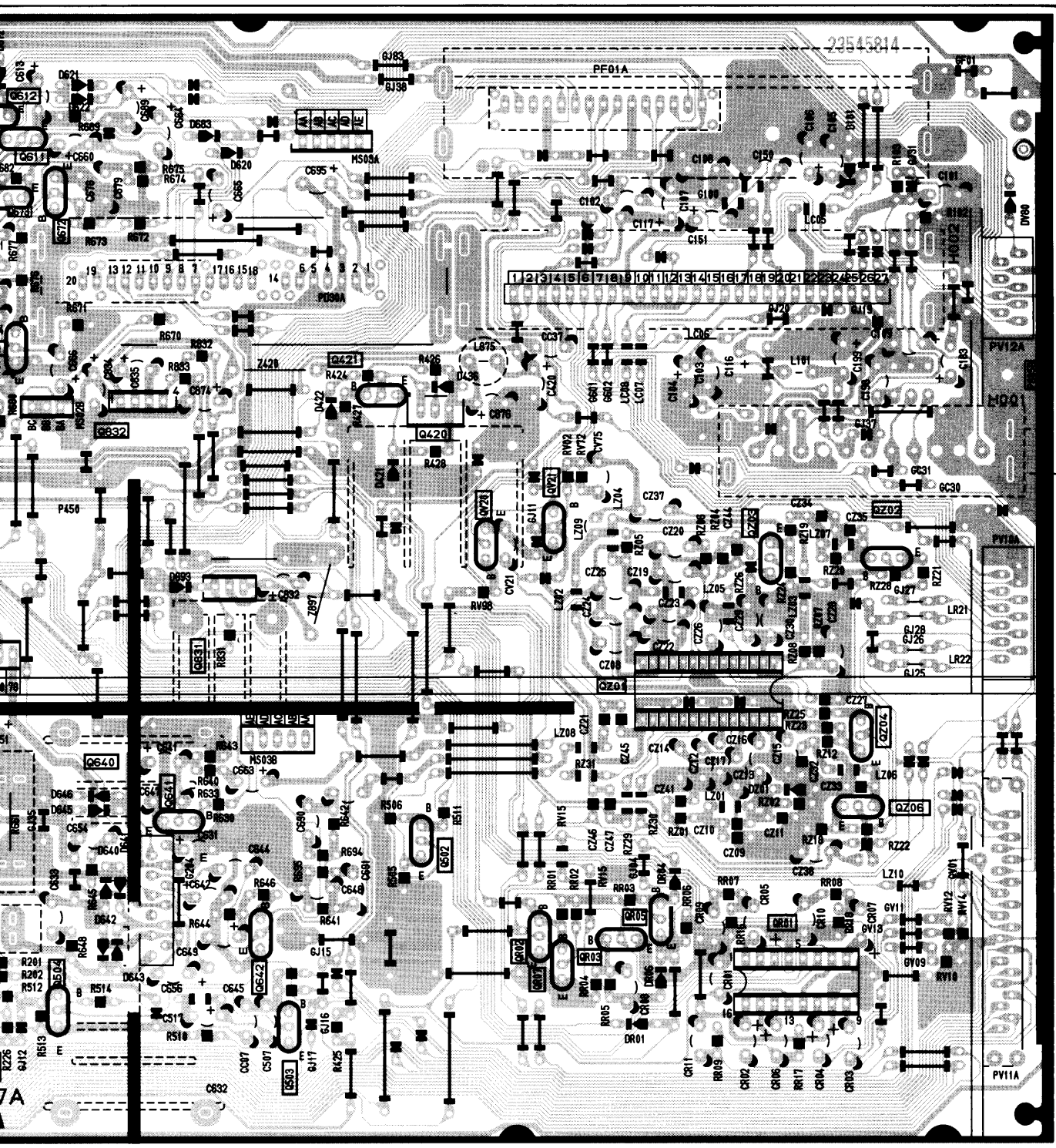
SIGNAL BOARD PB8357

BOTTOM (FOIL) SIDE

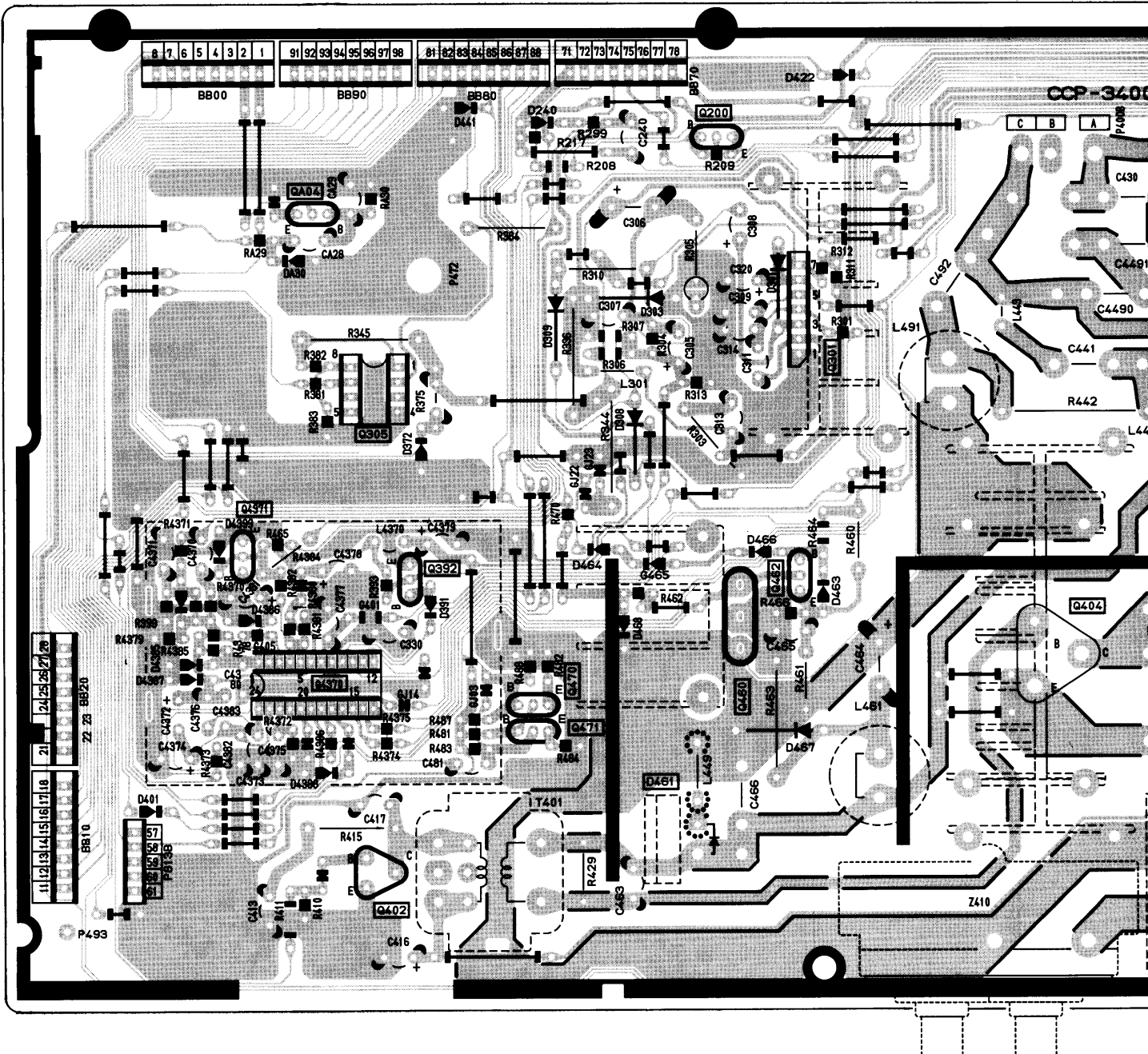


ANAL BOARD PB8357

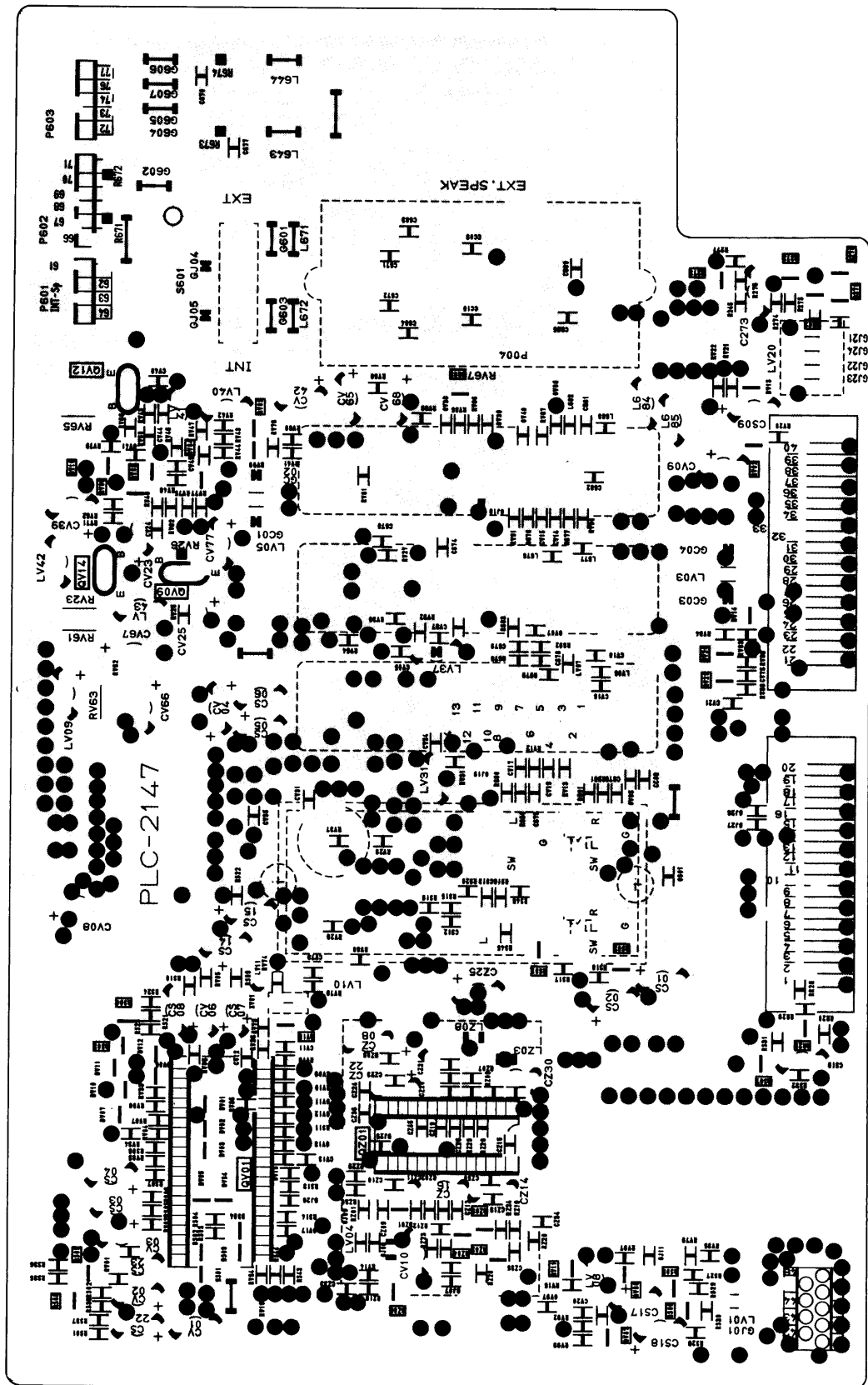
BOTTOM (FOIL) SIDE



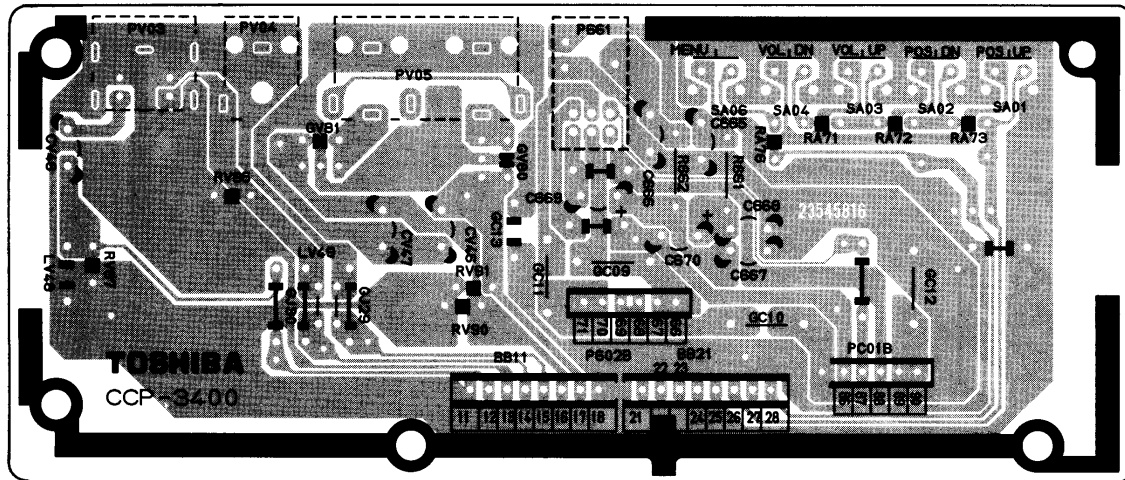
DEF BOARD PB8359-1
BOTTOM (FOIL) SIDE



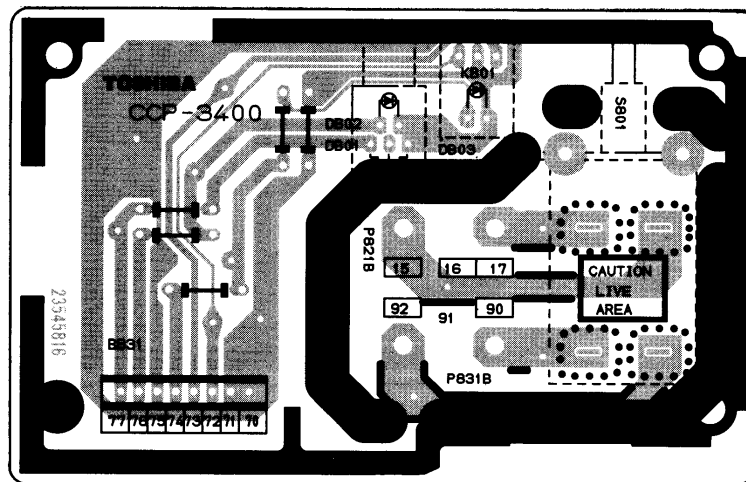
BOTTOM (FOIL) SIDE



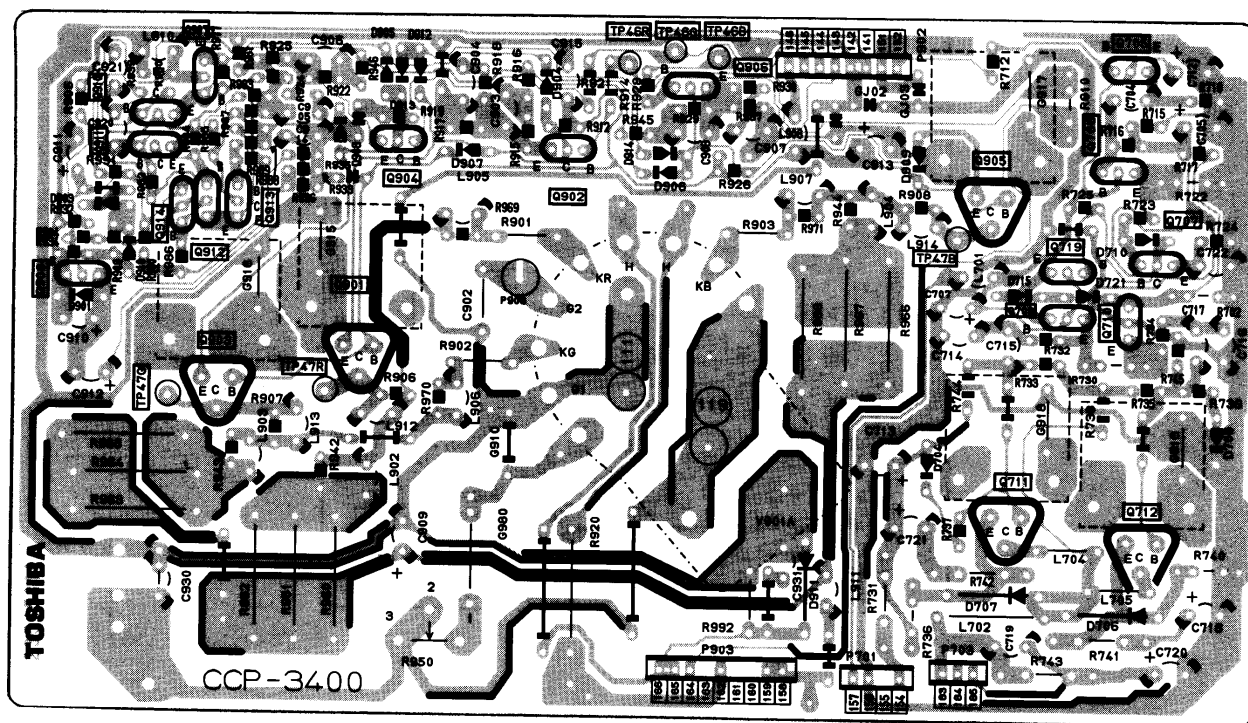
CONT-1 BOARD PB8359-2 **BOTTOM (FOIL) SIDE**



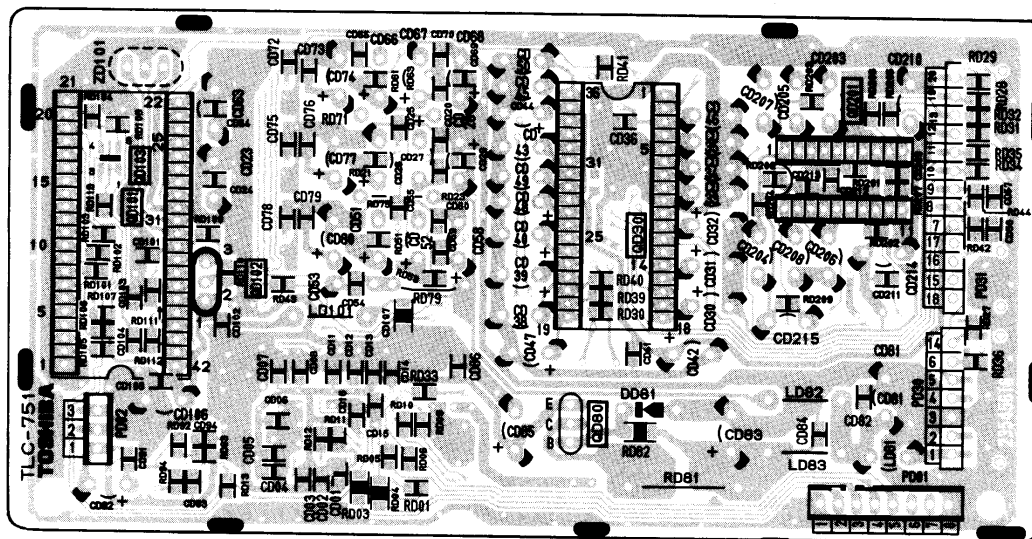
CONT-2 BOARD PB8359-3 **BOTTOM (FOIL) SIDE**



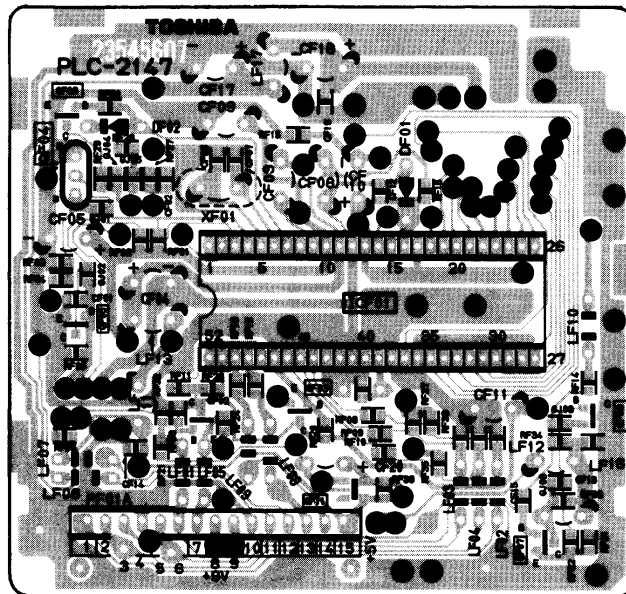
CRT DRIVE/DSM BOARD PB7201S **BOTTOM (FOIL) SIDE**



DOLBY BOARD PB7205X **BOTTOM (FOIL) SIDE**

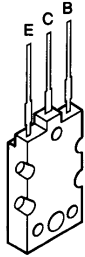


TEXT BOARD PB8114A
BOTTOM (FOIL) SIDE

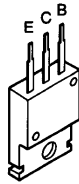


TERMINAL VIEW OF TRANSISTORS

① 2SD2253
(old)
2SC5243



② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



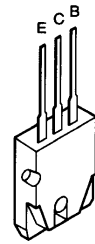
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



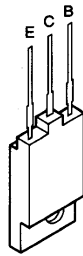
⑤ 2SA1788



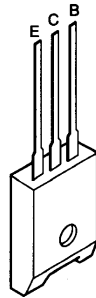
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



SPECIFIC INFORMATION

[illegible]

SPECIFICATIONS

Input Power Rating:	120 Watts (Approx.), AC 220 ~ 240 Volts, 50 Hz				
Aerial Input Impedance:	75 ohm unbalanced type for VHF, UHF and CATV				
Receiving Channels:	System	Channel	VHF	UHF	CATV
	PAL I	UK	—	21 ~ 69	—
	PAL, 50 Hz/60 Hz (For Video Disk play back)				
	4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)				
Intermediate Frequencies:	Picture I-F carrier frequency 38.9 MHz (L VL)				
	Sound I-F carrier frequency				
	I System 32.9 MHz				
Picture Tube:	28 inches, 660 mm (measured on diagonal of viewable picture area)				
	110° deflection				
Sound Output:	10 W + 10W (at 10% Distortion, Main), 10W (at 10% Distortion, Center)				
	13W (at 10% Distortion, Woofer), 5W + 5W (at 10% Distortion, Surround)				
Speakers:	60 mm x 120 mm oval, 2 pcs (Main)				
	100 mm, round, 1 pc (Woofer)				
	60mm x 120 mm oval, 2 pcs (Center)				
Aux. Terminals:	21 pin socket (FULL), 21 pin socket (S-VIDEO/AV), MONITOR OUTPUT, STEREO				
	HEADPHONE JACK (3.5mm).				
Cabinet:	Table type				
Dimensions:	Height 514 mm				
	Width 812 mm				
	Depth 518.5 mm				
Mass:	35.8 kg				

* Please refer to owner's manual.

SCHEMATIC DIAGRAM MODEL : 28W8DB (1/6)

030-9825

CAUTION: The international hazard symbols "A" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the **PRODUCT SAFETY NOTICE** on page 3. Do not degrade the safety of this receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary $\pm 20\%$.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that **CONTRAST** and **COLOUR** controls are in mid position and **BRIGHTNESS** control is almost in maximum position. Set other controls for best picture.

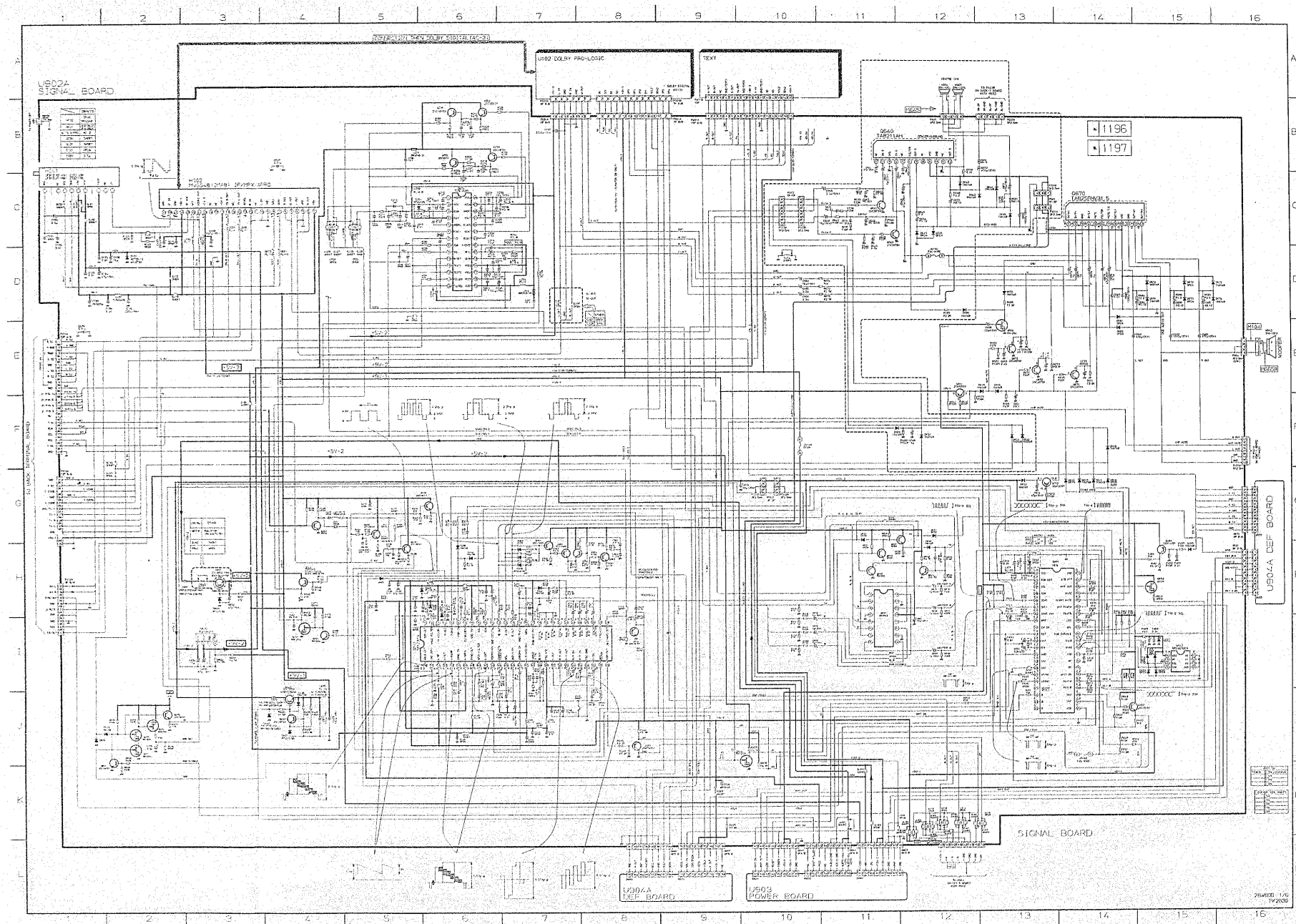
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other value noted in schematic, all capacitor values less than 1 are expressed in pF and the values more than 1 in μ F.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μ H, and the values less than 1 in H.



SCHEMATIC DIAGRAM

MODEL : 28W8DB

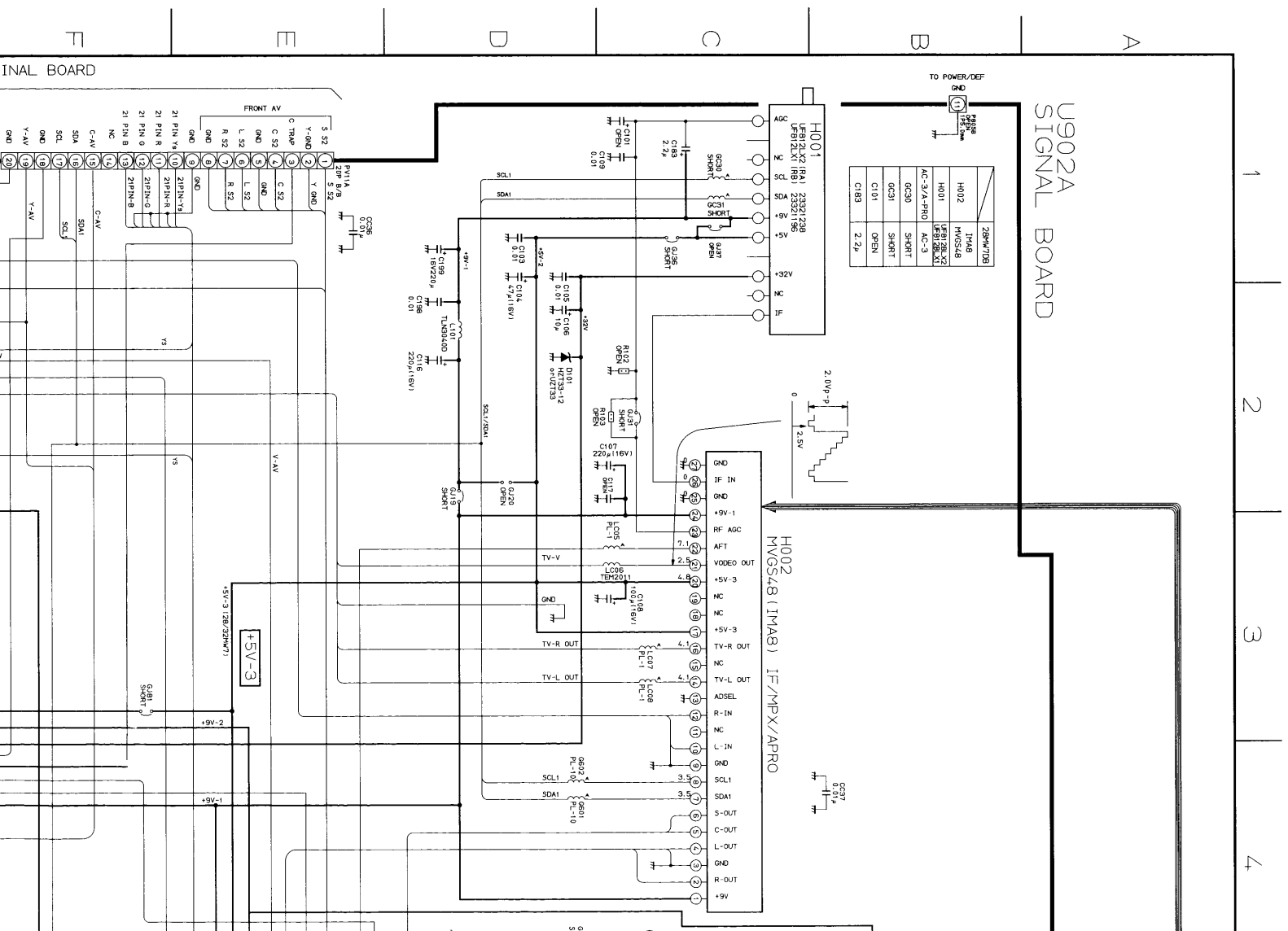
(1/6)

030-9825

CAUTION: The international hazard symbols “

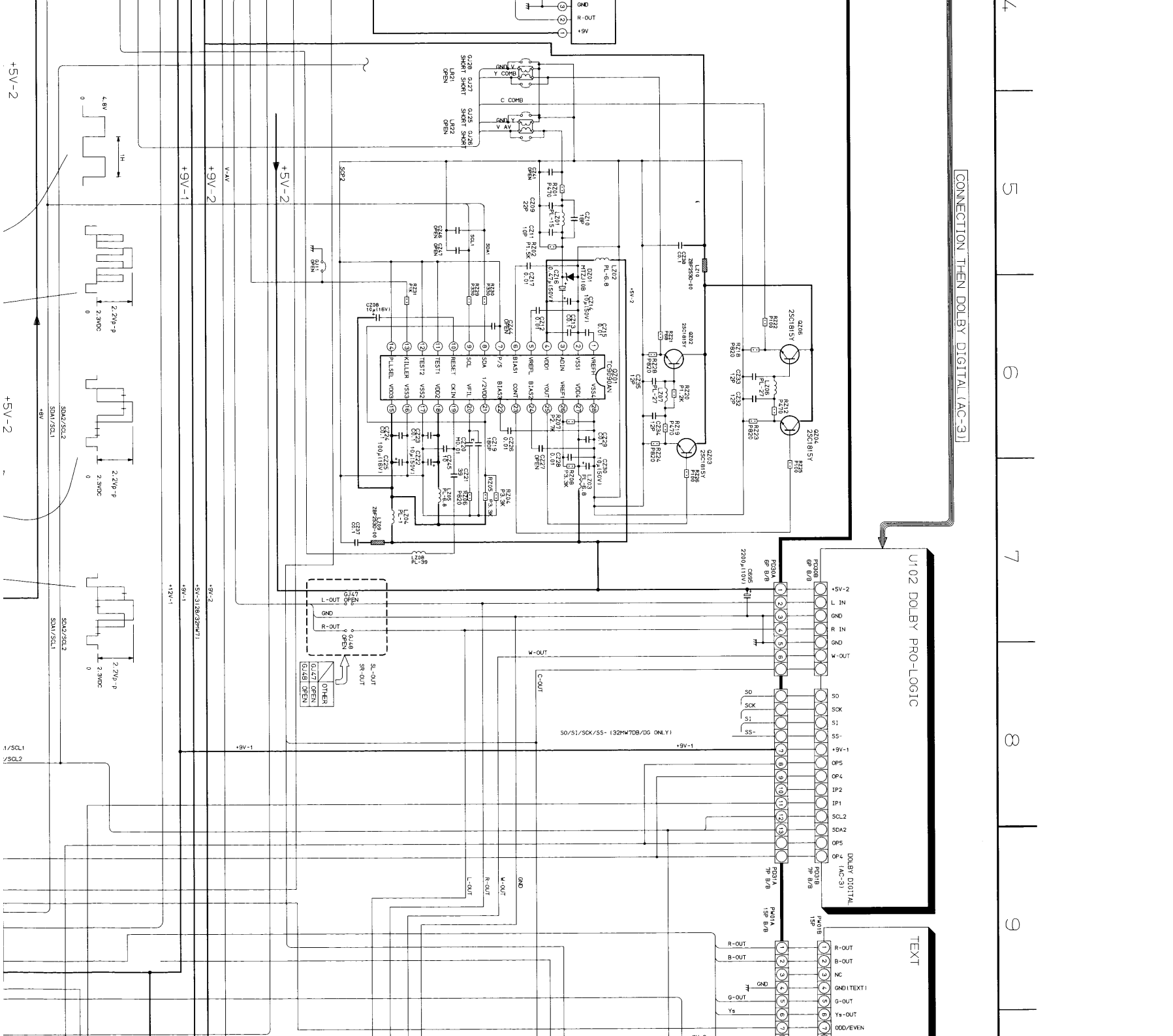
OBSERVATION

1. Voltages read volts, colour
 2. All waveform
 3. Waveforms a
 4. Make sure t
- BRIGHTNESS**
picture.



Images read with VTVM from point shown to chassis ground, line voltage 220 V, colour bar signal. Voltages reading may vary $\pm 20\%$. Waveforms are taken using a wide band oscilloscope and a low capacity probe. Waveforms are taken using a standard colour bar signal. CONTRAST and COLOUR controls are in mid position and are sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

1. D.C. resistance value of a principal transformer is gram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. : Solder links.

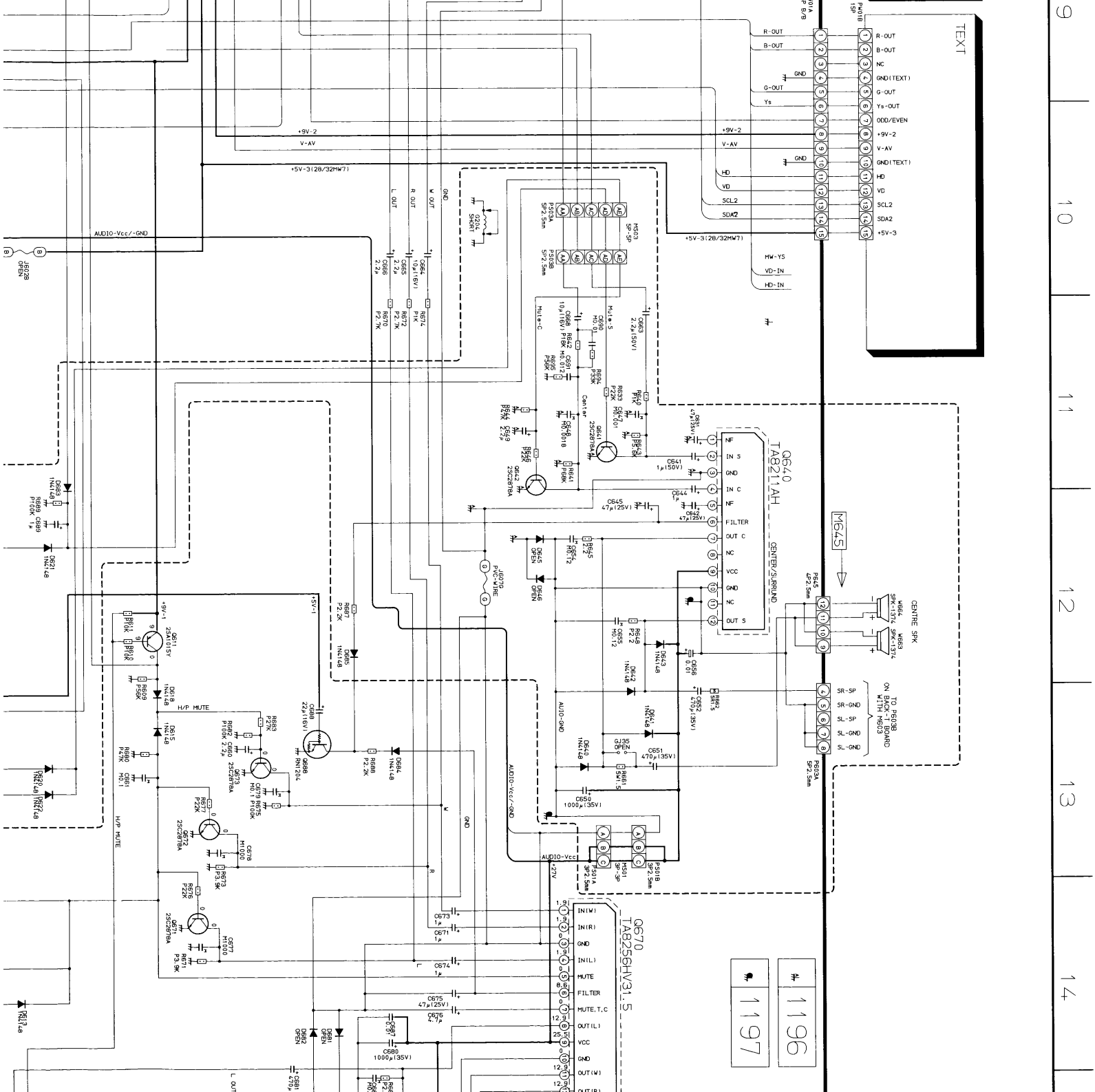


Signal transformer is shown in this schematic diagram separated from the circuit.
See without notice.

EXPRESSION

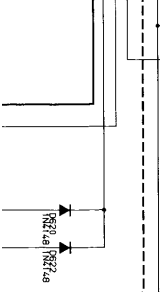
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, K=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in nH.

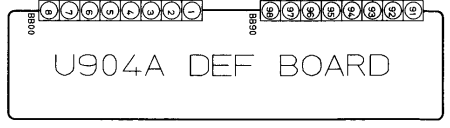
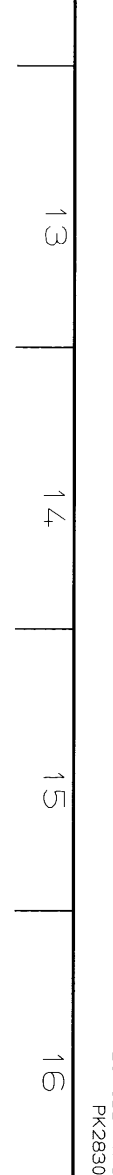
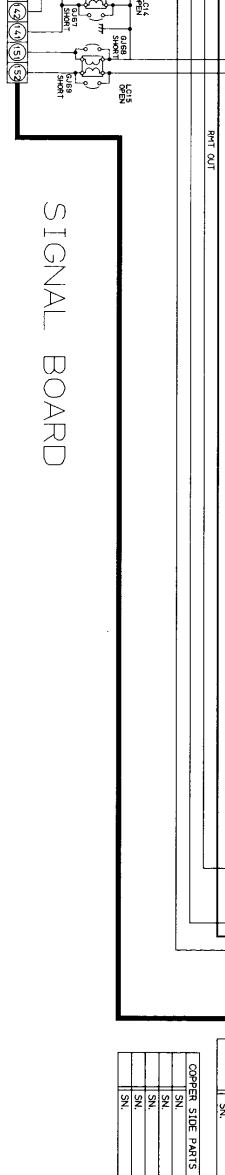
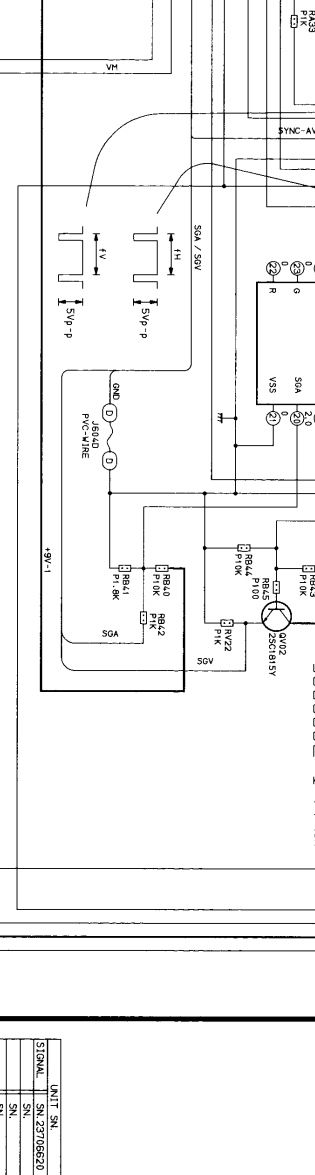
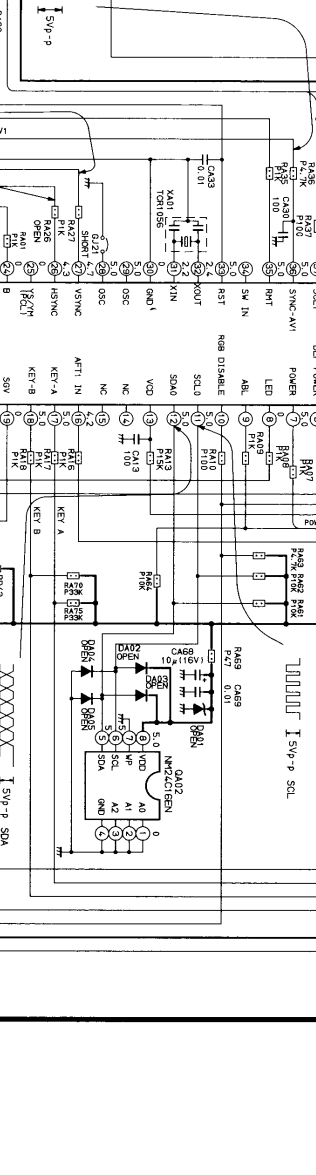
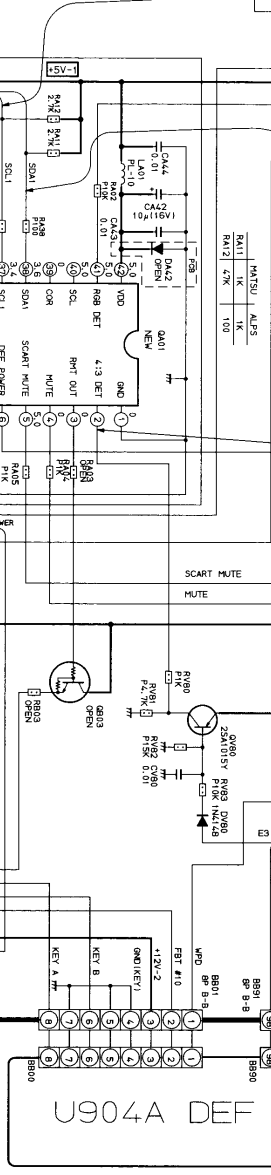
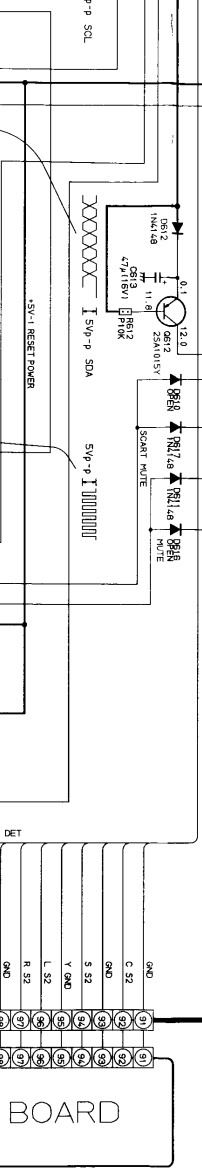
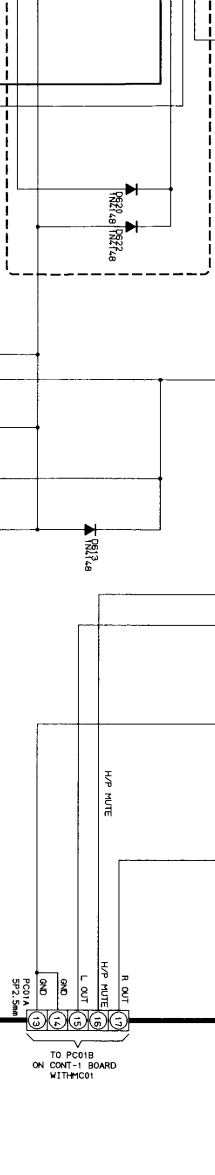
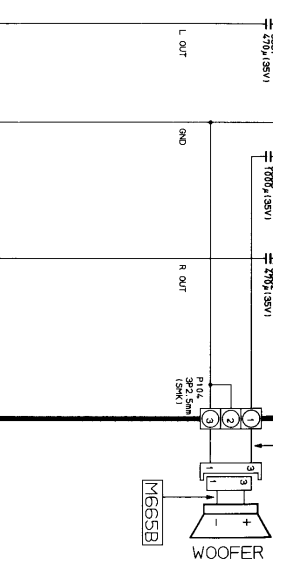
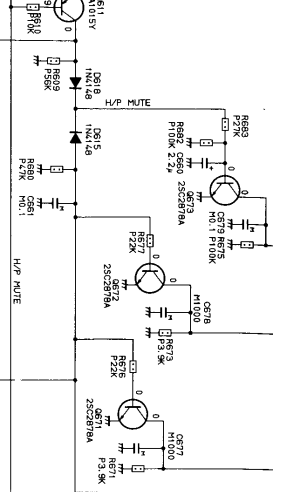


shown in ohm, $k=1,000$, $M=1,000,000$

and the values less than 1 in H.



PC01B
IT-1 BOARD
TMC01



UNIT	SNL
SIGNAL	SN 23705620
SN	SN
SN	SN
SN	SN
SN	SN

COPPER SIDE PARTS
SN
SN
SN
SN
SN

28W8DB 1/6
PK2830

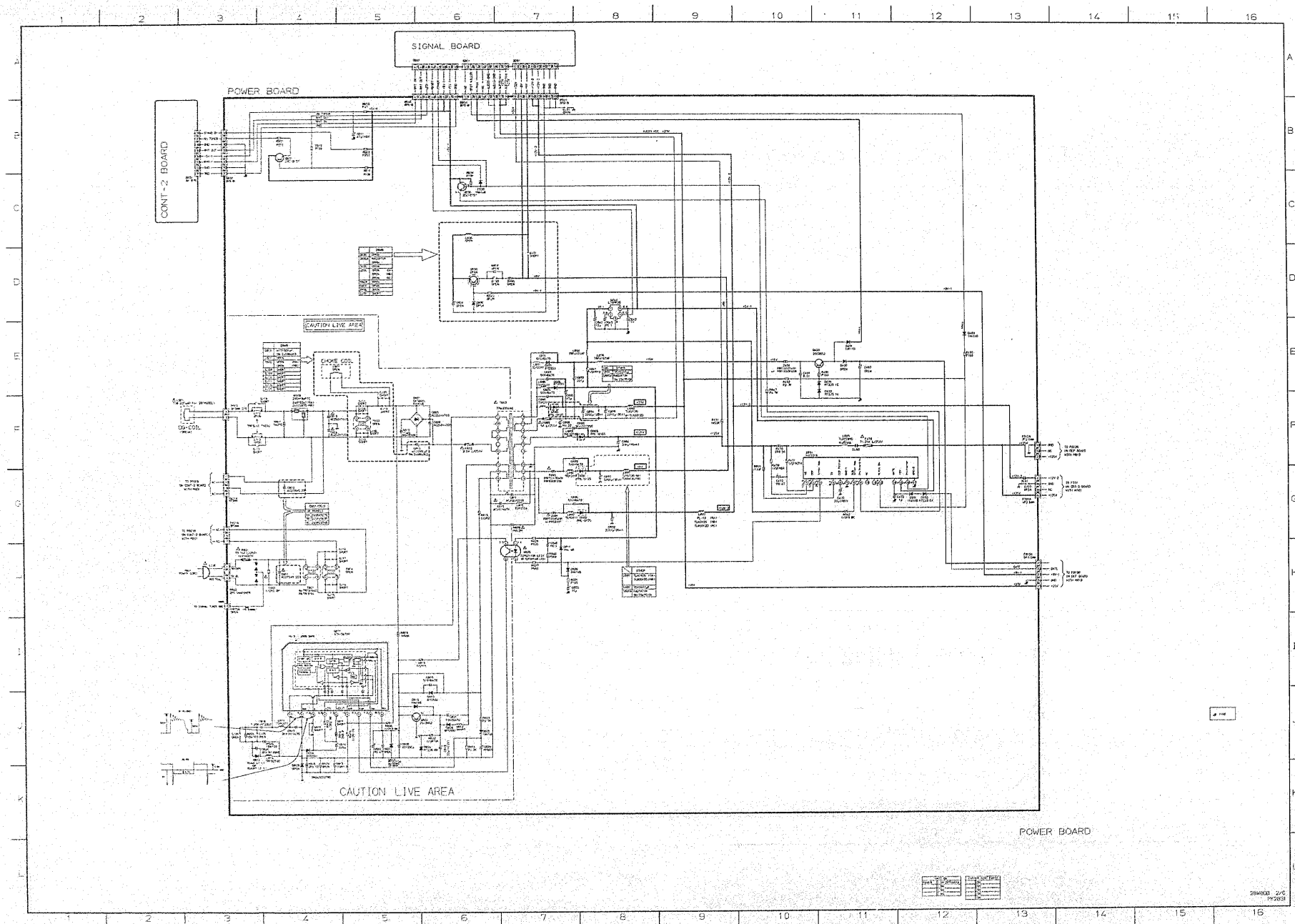
030-9825

CAUTION: The international hazard symbols "A" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the **PRODUCT SAFETY NOTICE** on page 3. Do not discard the safety of the receiver through improper servicing.

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary $\pm 20\%$.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. : Solder links.

1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.



SCHEMATIC DIAGRAM

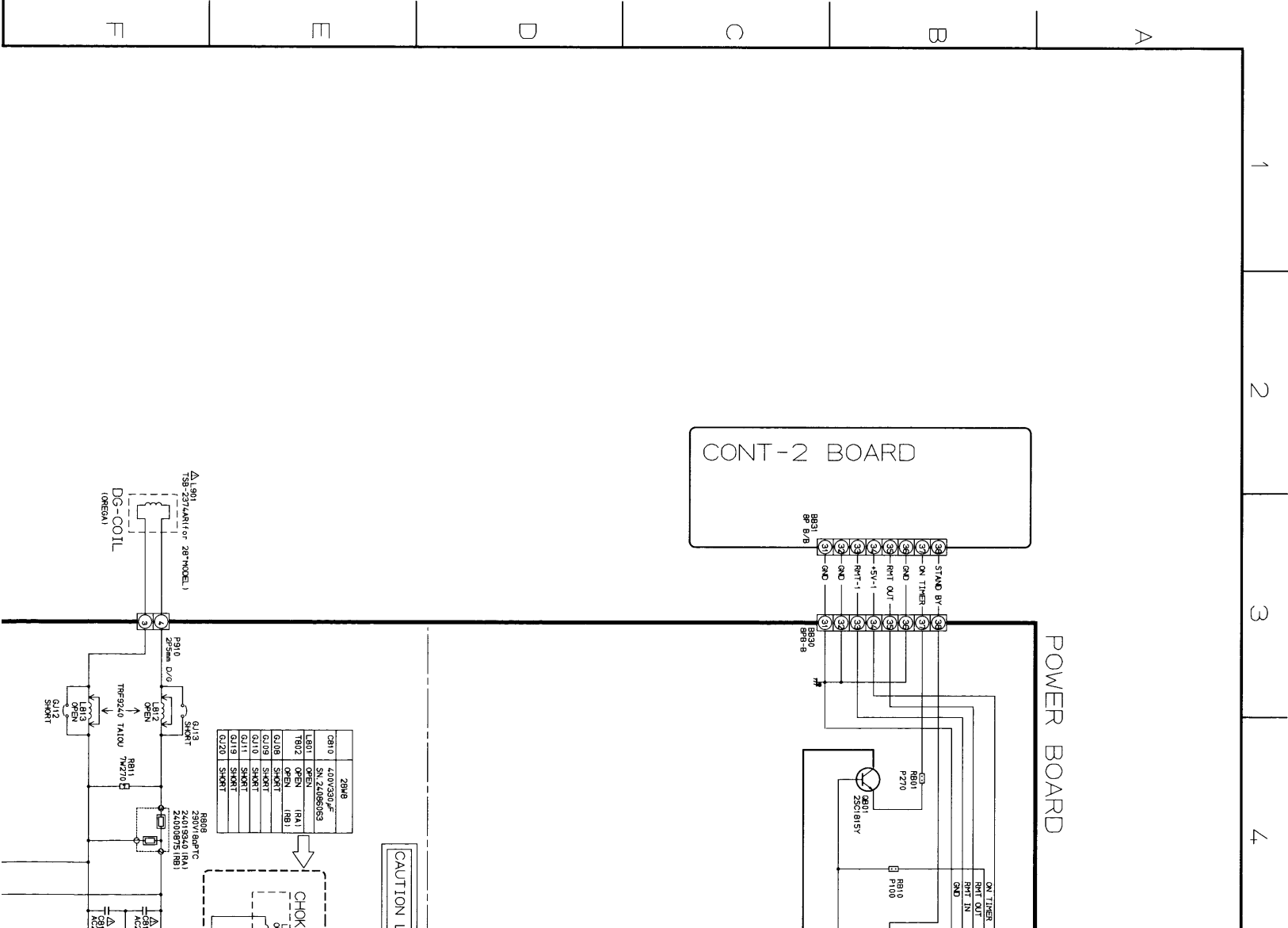
MODEL : 28W8DB

(2/6)

0 3 0 - 9 8 2 5

CAUTION: The international hazard symbol " Δ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

- OBSERVATION OF**
1. Voltages read w
 2. All waveforms a
 3. Waveforms are
 4. Make sure that
- BRIGHTNESS** co
picture.

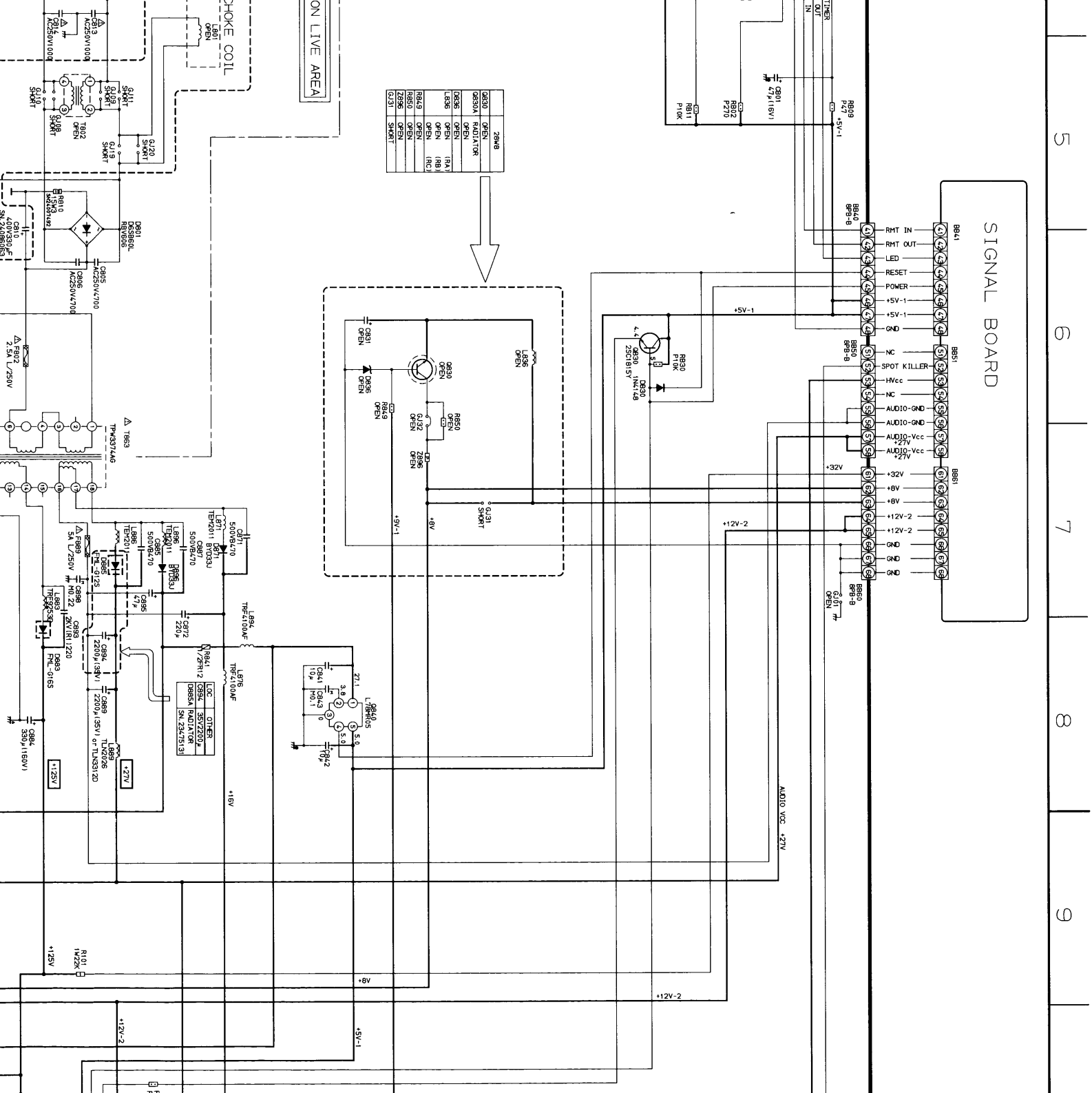


OF VOLTAGES AND WAVEFORMS

and with VTVM from point shown to chassis ground, line voltage 220 bar signal. Voltages reading may vary $\pm 20\%$.
are taken using a wide band oscilloscope and a low capacity probe.
are taken using a standard colour bar signal.
that CONTRAST and COLOUR controls are in mid position and
S control is almost in maximum position. Set other controls for best

NOTES:

1. D.C. resistance value of a principal transformer is shown gram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  : Solder links.

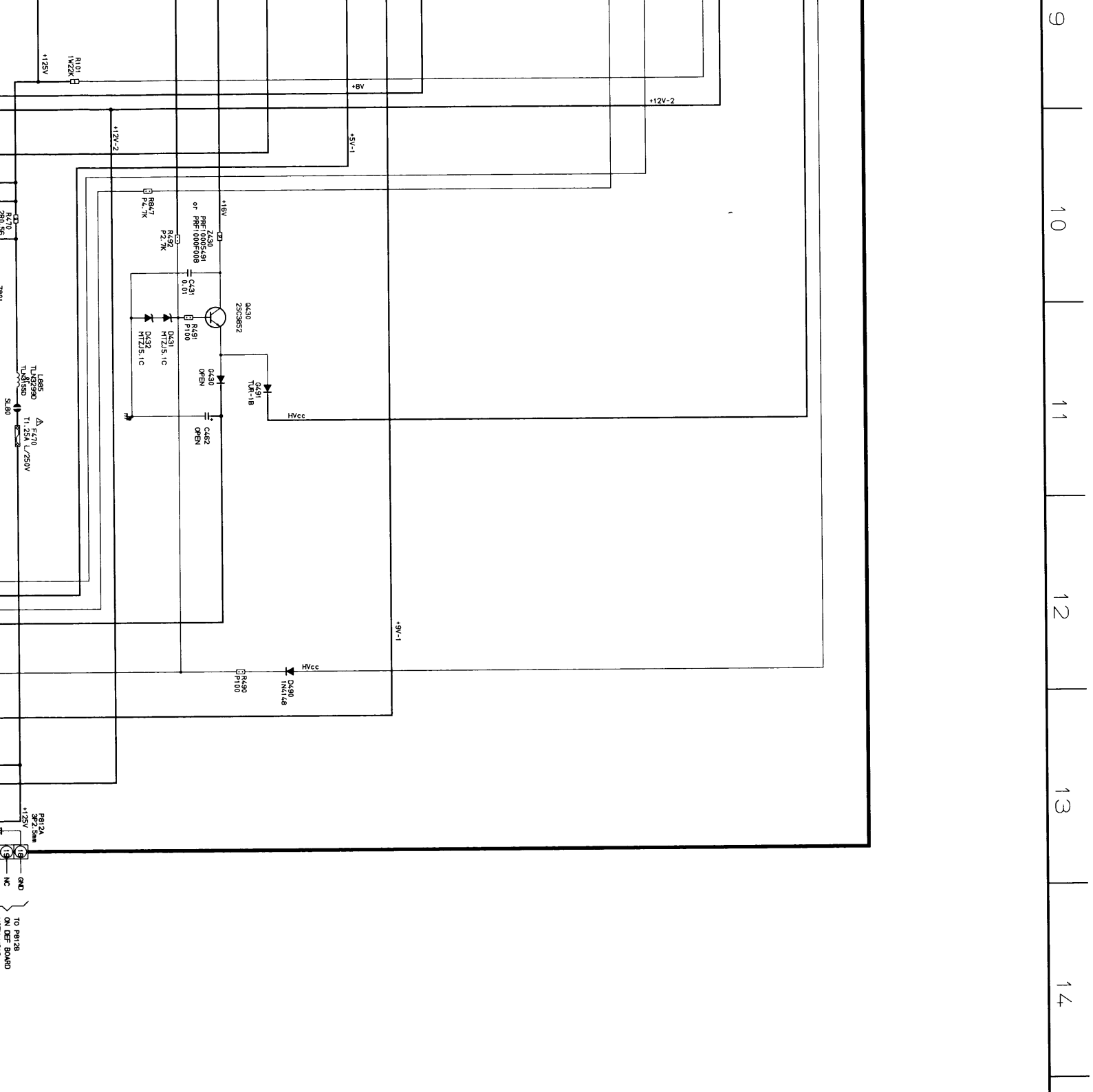


Principal transformer is shown in this schematic diagram separated from the circuit.
 See page without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

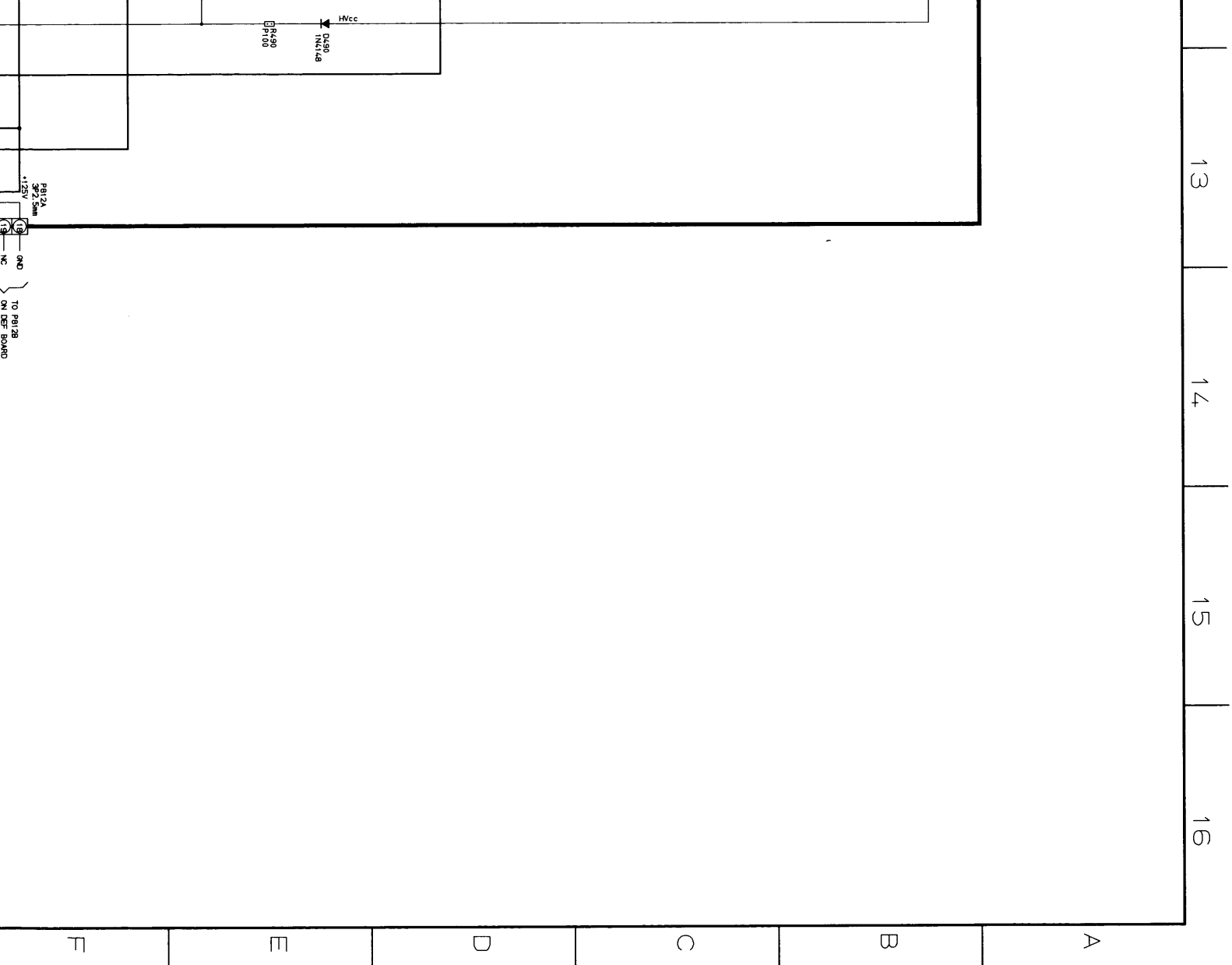


INDUCTOR, CAPACITOR and INDUCTOR

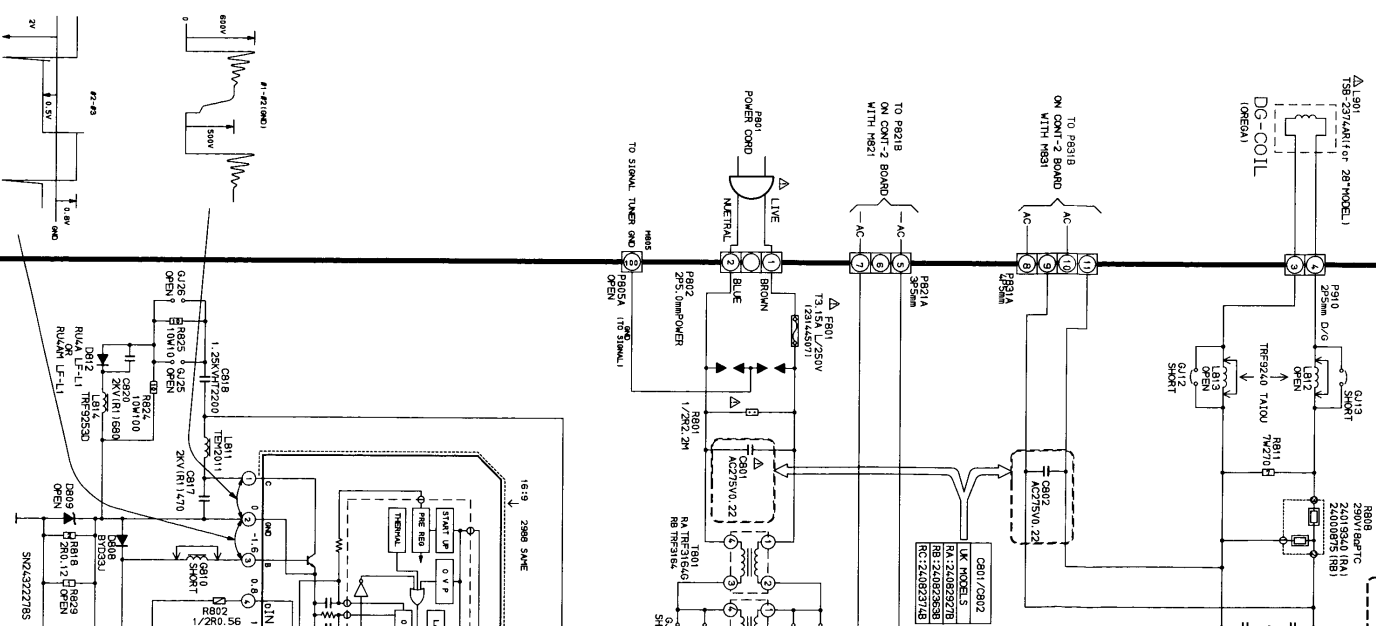
shown in ohm, k=1,000, M=1,000,000

use noted in schematic, all capacitor values less than 1 are expressed in pF.

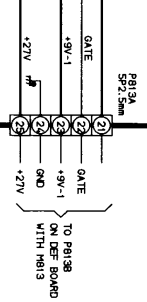
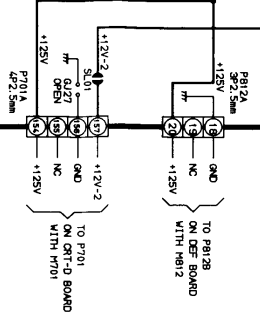
use noted in schematic, all inductor values more than 1 are expressed in mH.



	28W6
C810	400V330 μ F SN.24086063
L801	OPEN
T802	OPEN (RA) OPEN (RB)
GJ08	SHORT
GJ09	SHORT
GJ10	SHORT
GJ11	SHORT
GJ19	SHORT
GJ20	SHORT



1004-40
R490
P100



1166

COPPER SIDE PARTS			
SN			
SN			
SN			
SN			

POWER BOARD

28W8DB 2/6
PK2831

13 14 15 16

L K J I H G F E

OBSERVATION OF VOLTAGES AND WAVEFORMS

3. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary $\pm 20\%$.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

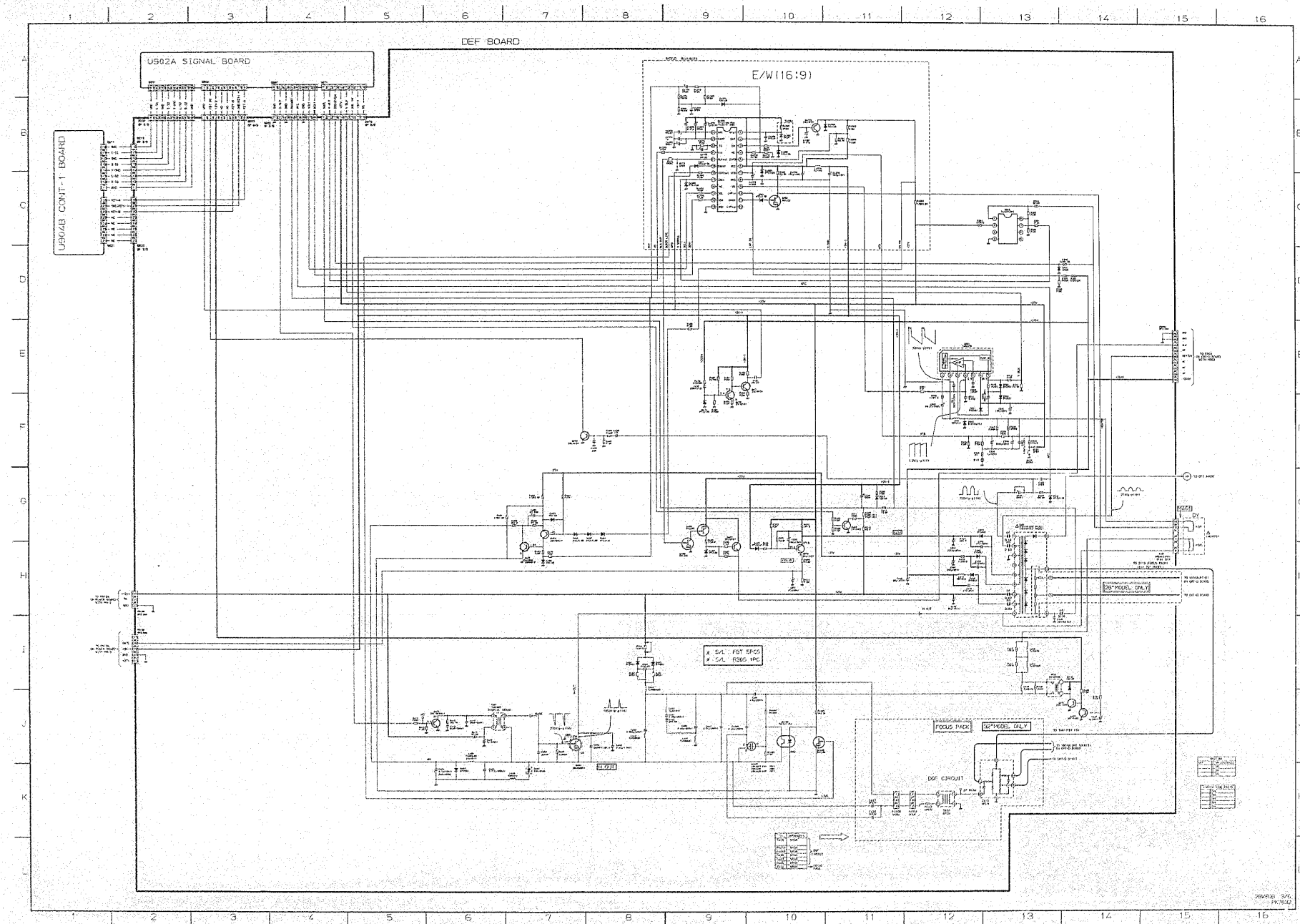
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

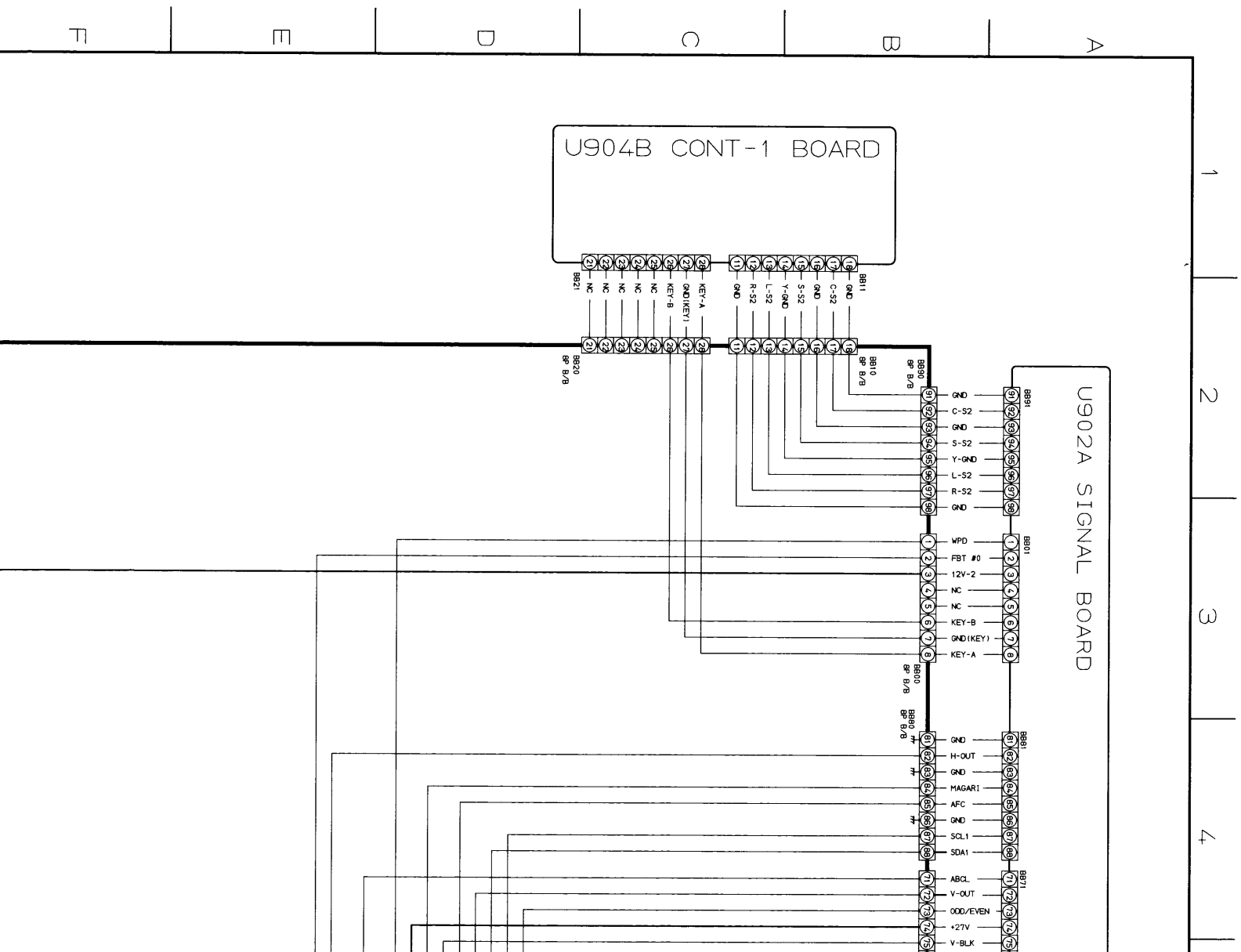


SCHEMATIC DIAGRAM MODEL : 28W8DB (3/6)

030-9825

CAUTION: The international hazard symbols " Δ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF V
1. Voltages read with
volts, colour bar sig
2. All waveforms are t
3. Waveforms are tak
4. Make sure that C
BRIGHTNESS contr
picture.



ATION OF VOLTAGES AND WAVEFORMS

es read with VTVM from point shown to chassis ground, line voltage 220
 colour bar signal. Voltages reading may vary $\pm 20\%$.
 eforms are taken using a wide band oscilloscope and a low capacity probe.
 orms are taken using a standard colour bar signal.
 sure that CONTRAST and COLOUR controls are in mid position and
 ITNESS control is almost in maximum position. Set other controls for best

NOTES:

1. D.C. resistance value of a principal transformer is si
2. gram. These are measured for separated from the circ
3.  : Solder links.

5

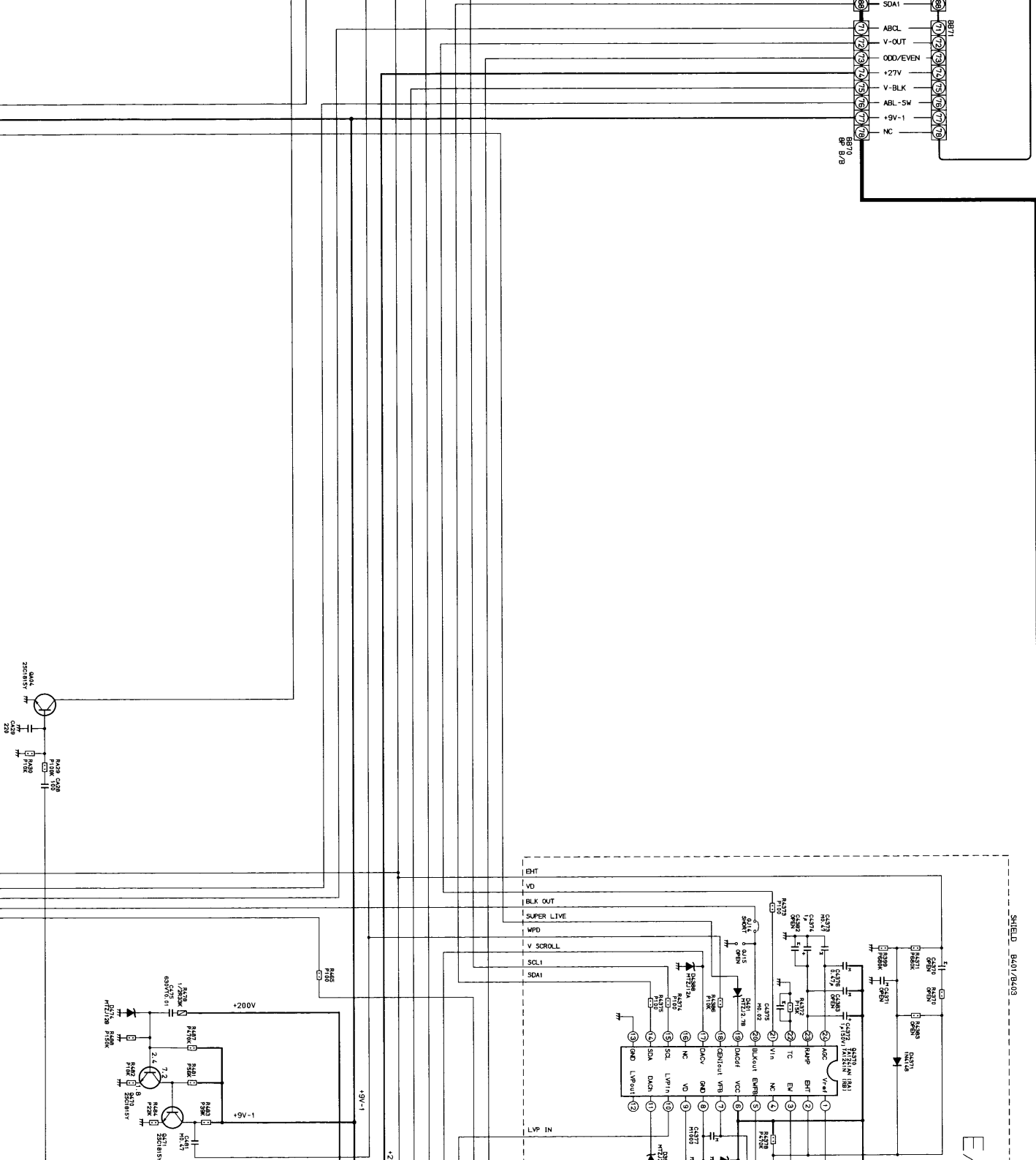
6

7

8

9

DEF BOARD



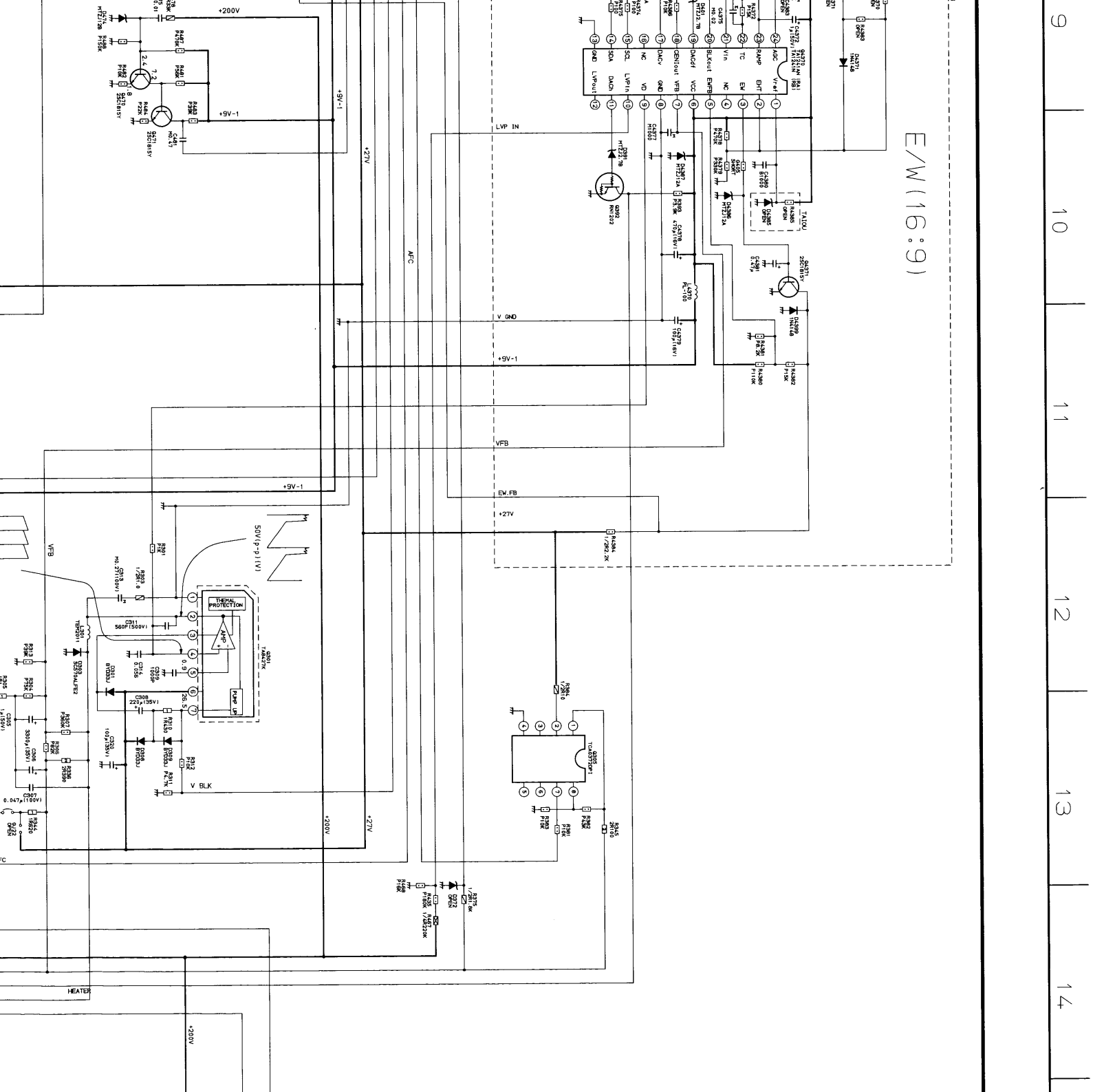
EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

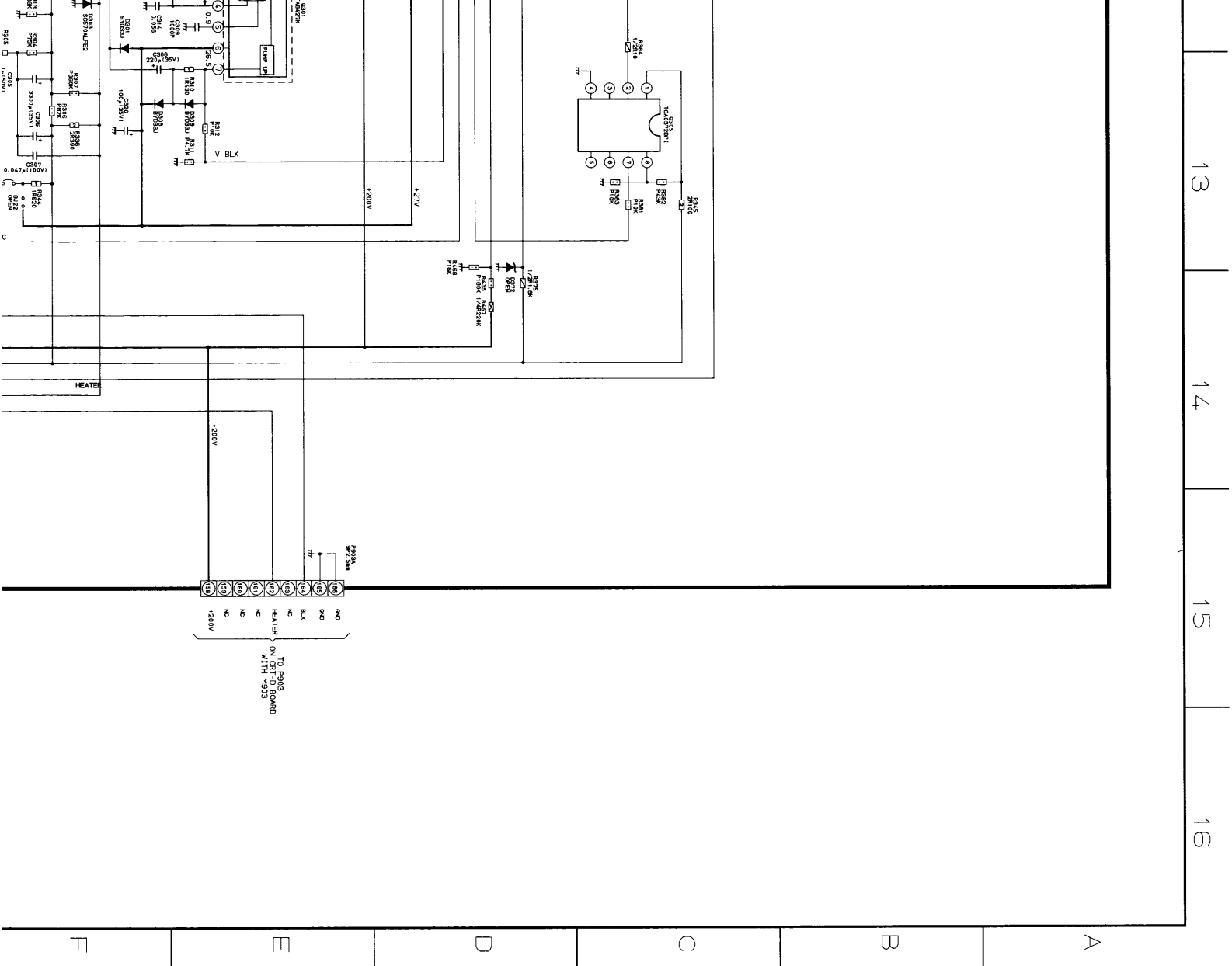
1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

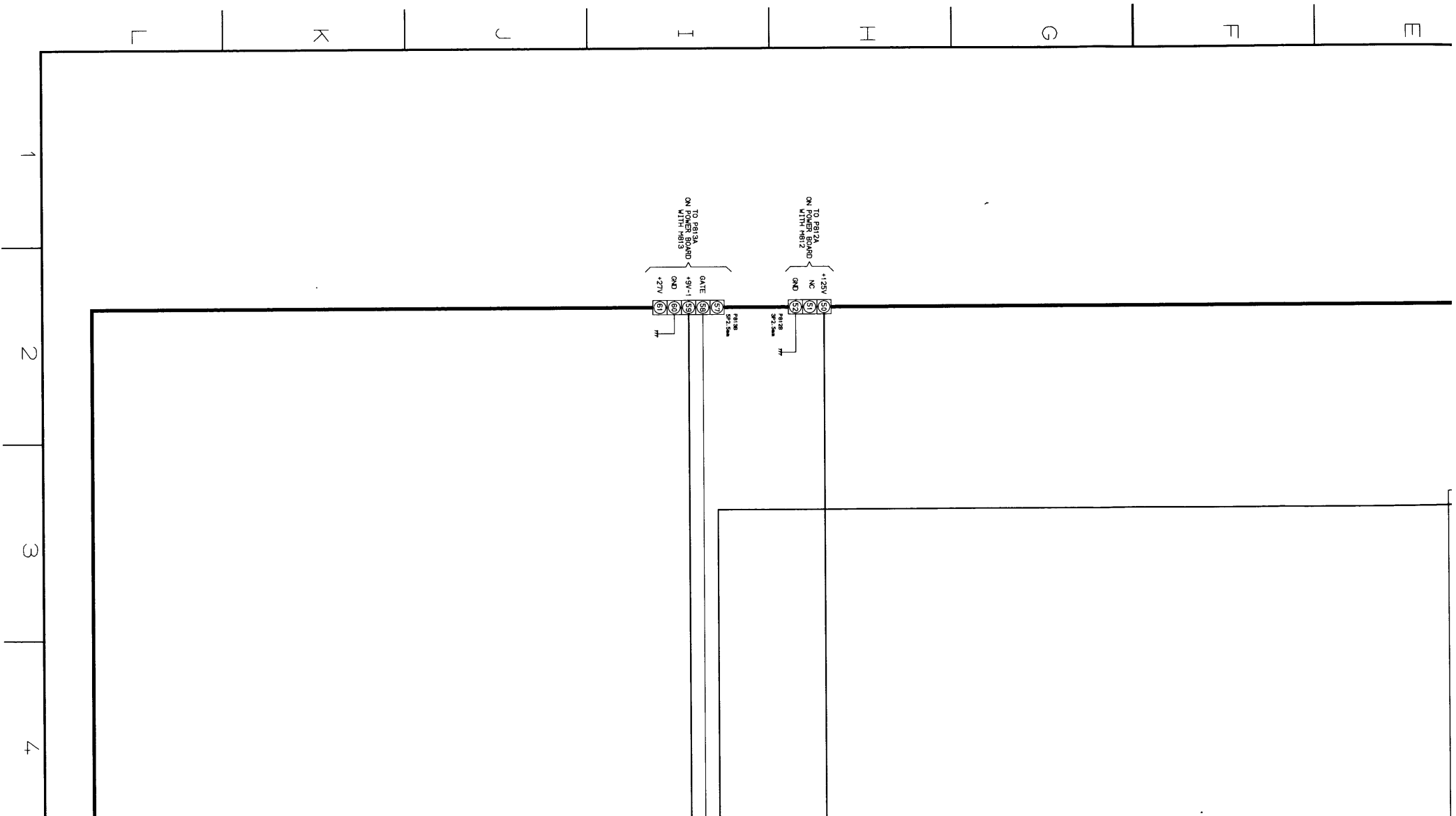
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

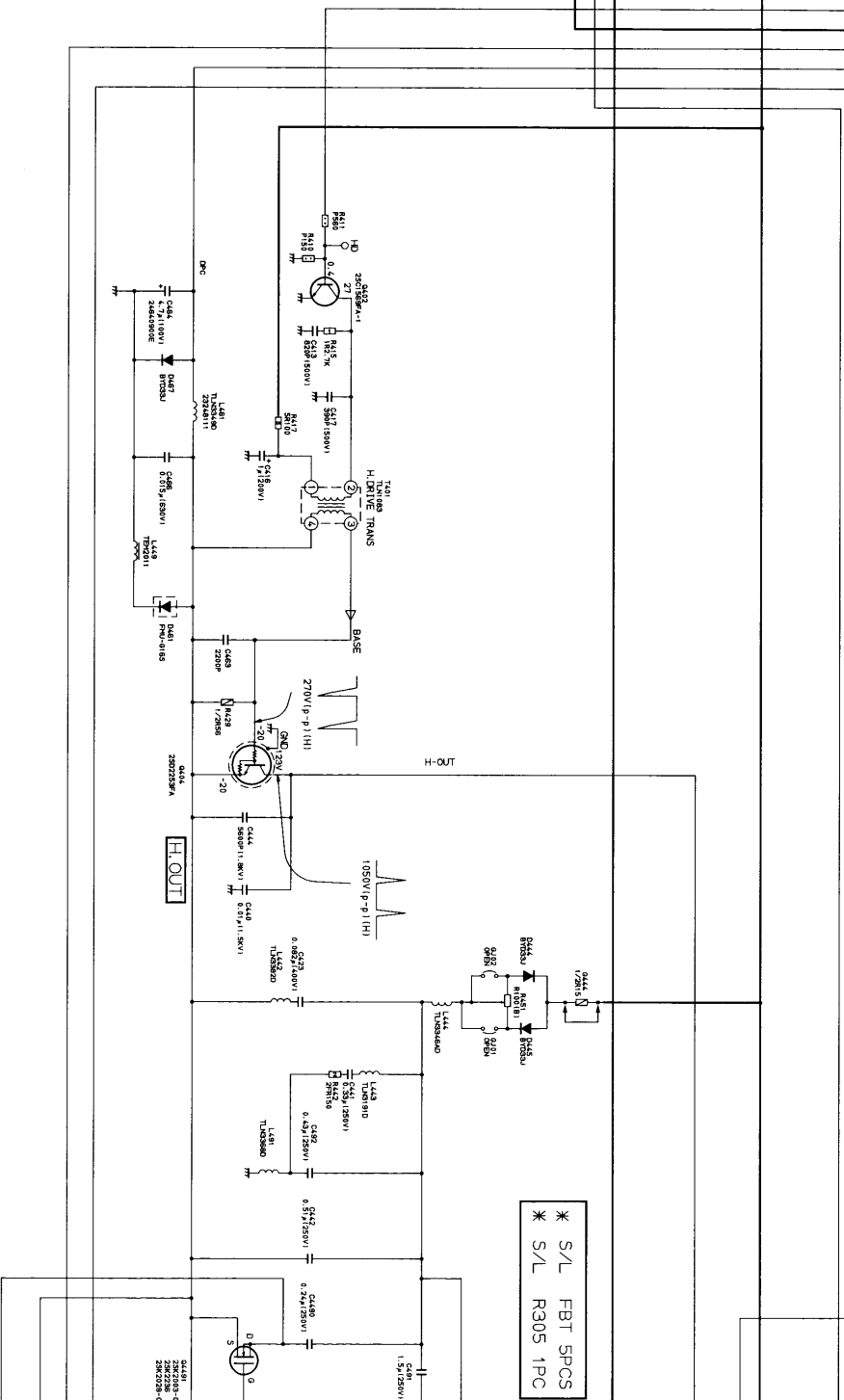
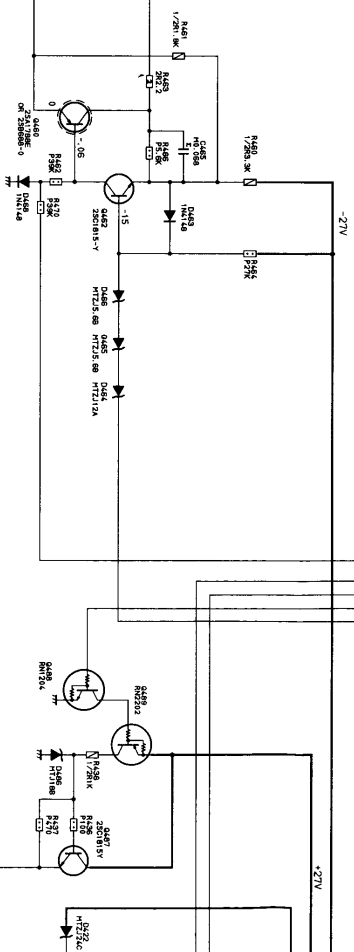
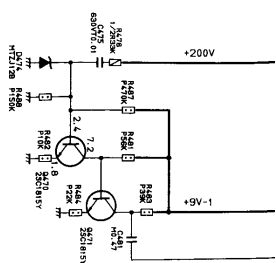
1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.



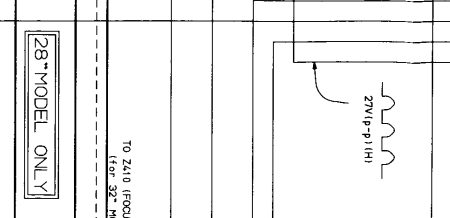
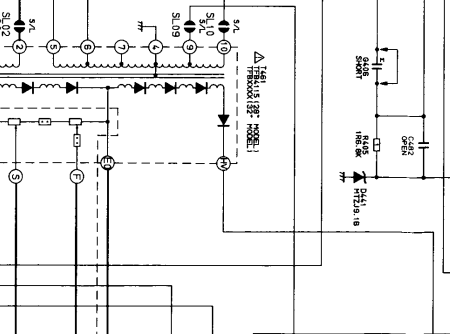
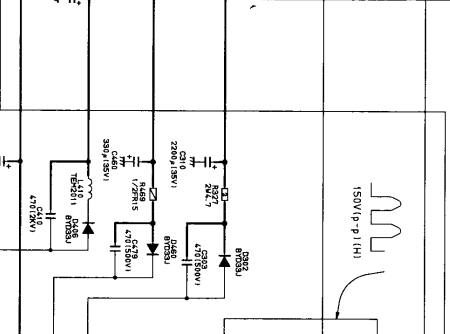
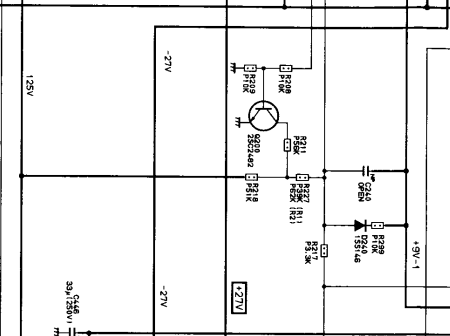
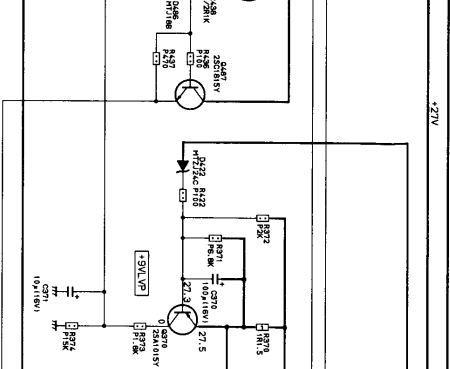
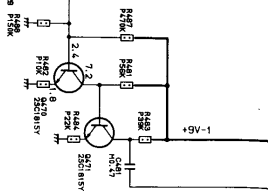
shown in ohm, $k=1,000$, $M=1,000,000$ are noted in schematic, all capacitor values less than 1 are expressed more than 1 in pF. The values noted in schematic, all inductor values more than 1 are expressed less than 1 in H.



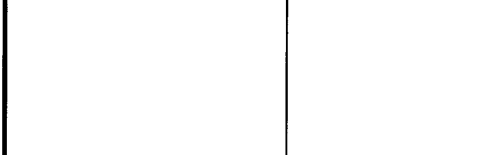
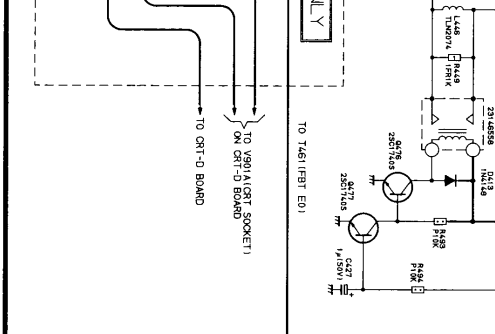
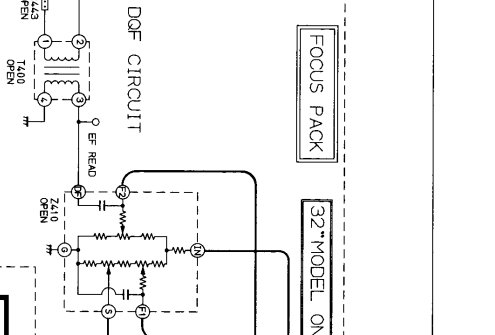
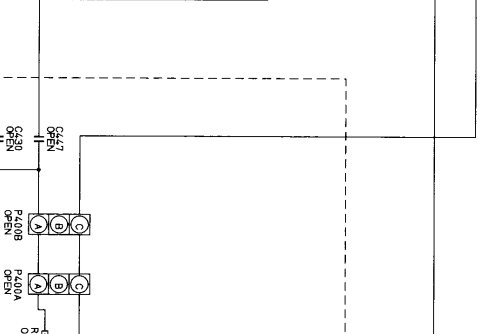
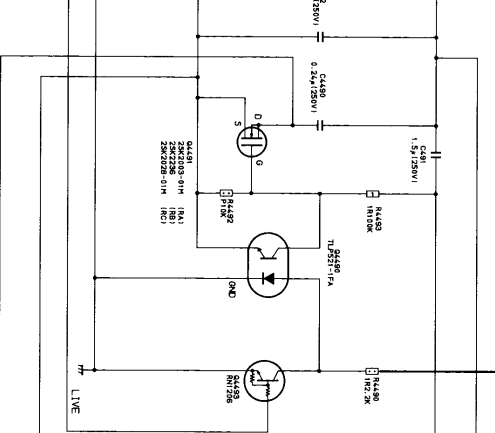




* S/L FBT 5PCS
* S/L R305 1PC



S/L FBI SPCS
S/L R305 1PC



28*MODEL S	DOF
T400	OPEN
P400A	OPEN
P400B	OPEN
C430	OPEN
R443	OPEN
Z410	OPEN

DOF
CIRCUIT
FOCUS
PACK

FOCUS PACK

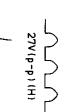
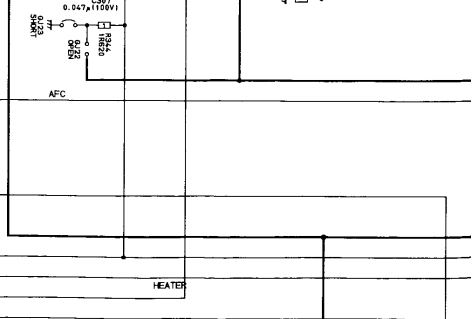
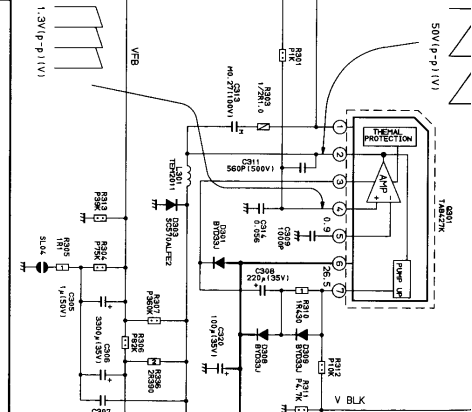
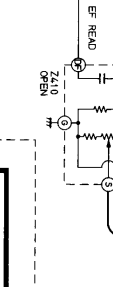
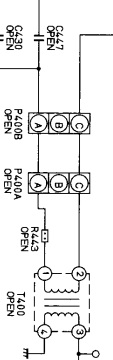
32*MODEL ONLY

TO T461 (FBI E0)

TO Y901A (CRT SOCKET)
ON CRT-0 BOARD

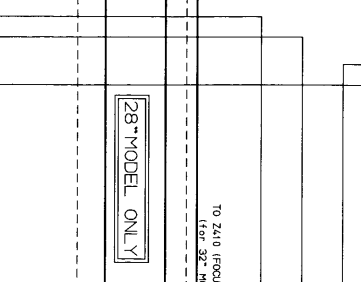
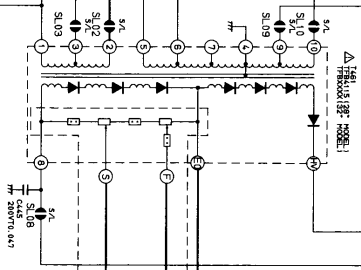
TO CRT-0 BOARD

DOF CIRCUIT



TO Z410 (FOCUS)
FOR 32* MODEL

28*MODEL ONLY



SCHEMATIC DIAGRAM MODEL : 28W8DB (4/6)

030-9825

CAUTION: The international hazard symbols "A" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with original. Before replacing any of these components, read carefully the **PRODUCT SAFETY NOTICE** on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary $\pm 20\%$.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that **CONTRAST** and **COLOUR** controls are in mid position and **BRIGHTNESS** control is at maximum position. Set other controls for best picture.

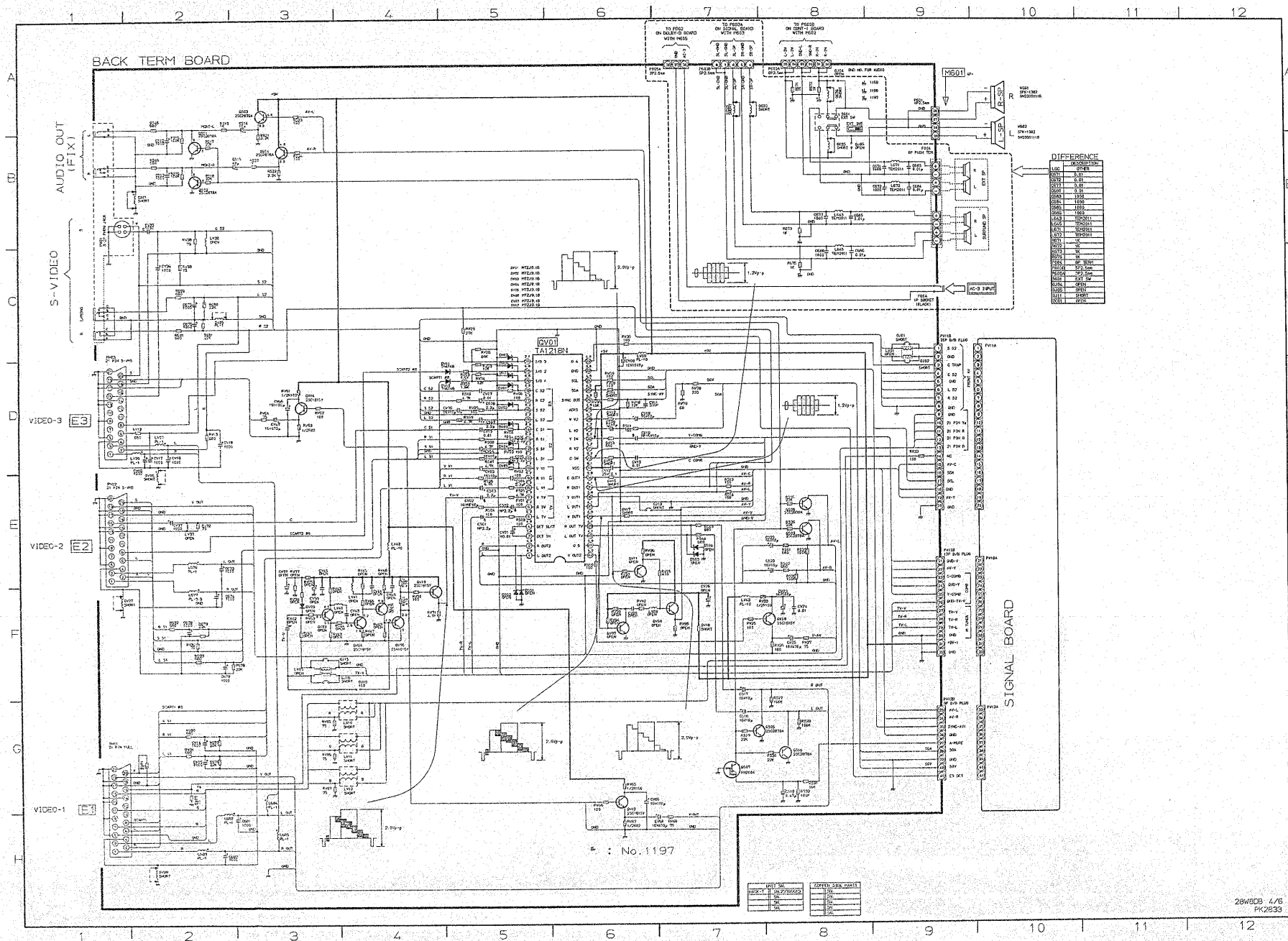
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. $\bullet$: Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR AND INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000.
2. Unless other value noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in μF .
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in nH.



SCHEMATIC DIAGRAM

MODEL : 28W8DB

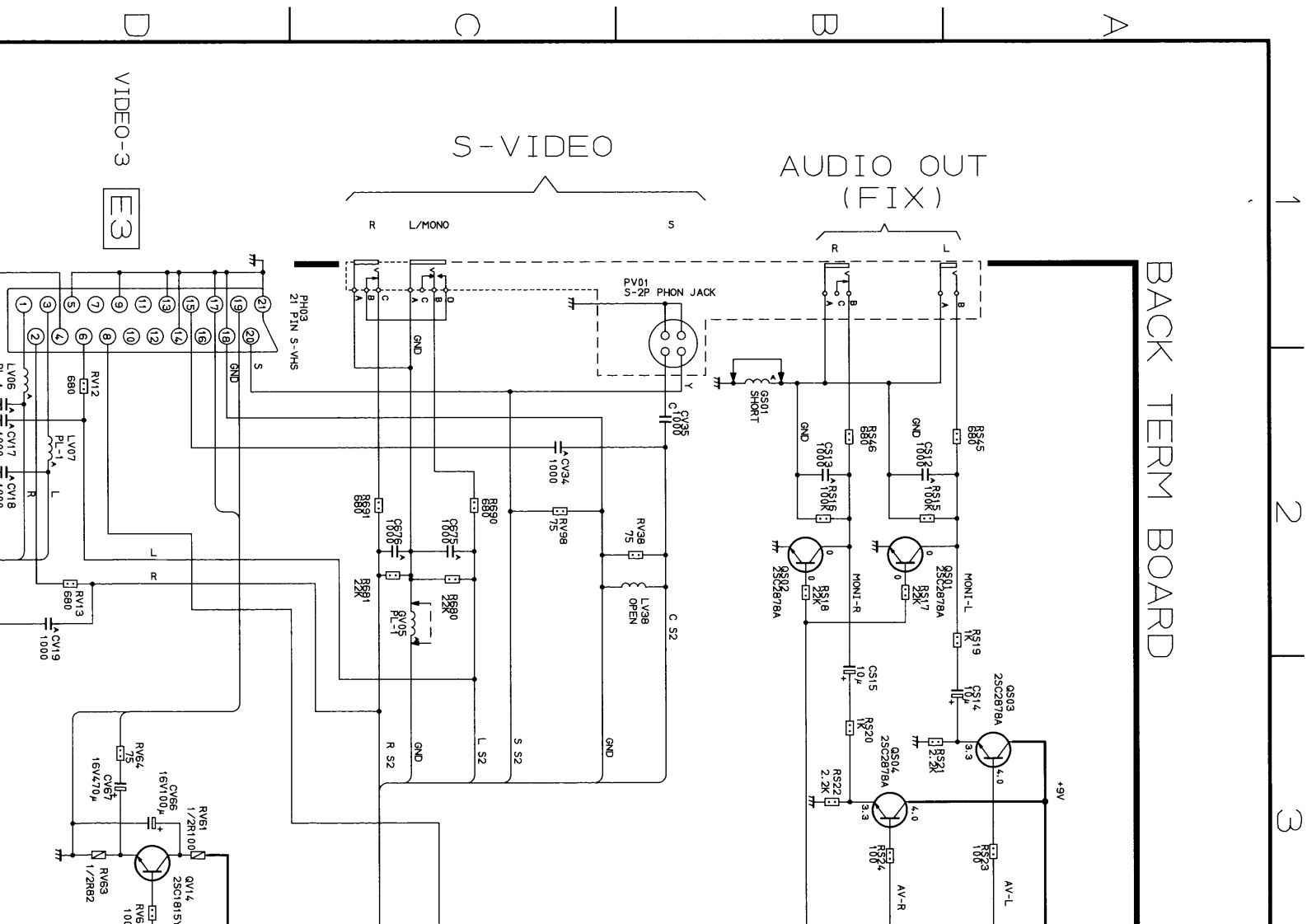
(4/6)

030-9825

CAUTION: The international hazard symbols " Δ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

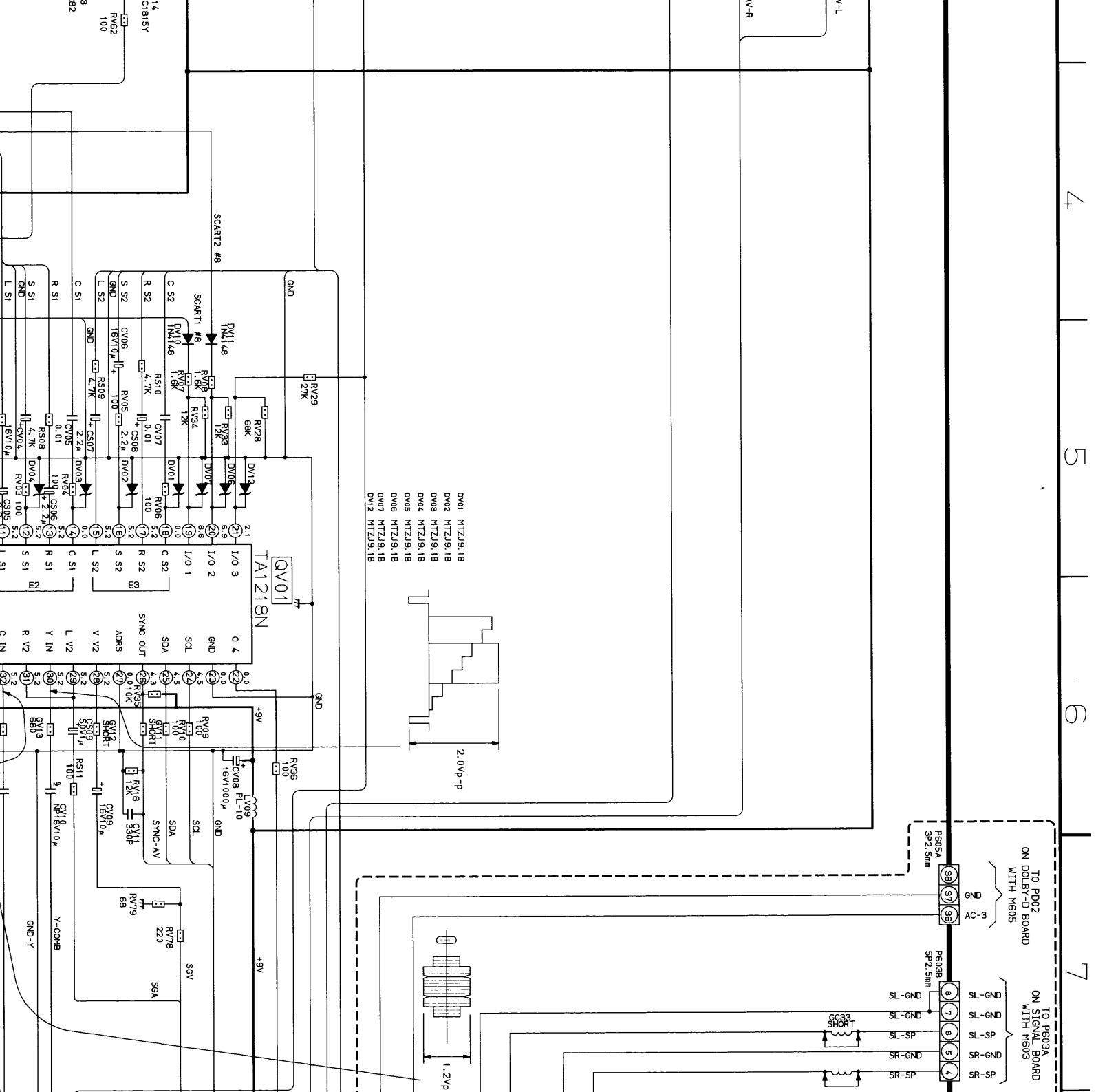
OBSERVATION

1. Voltages read in volts, colour
2. All waveforms
3. Waveforms a
4. Make sure the BRIGHTNESS picture.



read with VTVM from point shown to chassis ground, line voltage 220
our bar signal. Voltages reading may vary $\pm 20\%$.
orms are taken using a wide band oscilloscope and a low capacity probe.
s are taken using a standard colour bar signal.
that CONTRAST and COLOUR controls are in mid position and
ESS control is almost in maximum position. Set other controls for best

1. D.C. resistance value of a principal transformer is shown in gram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. : Solder links.



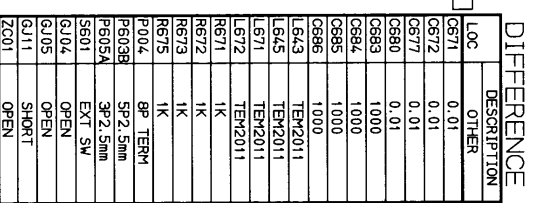
EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

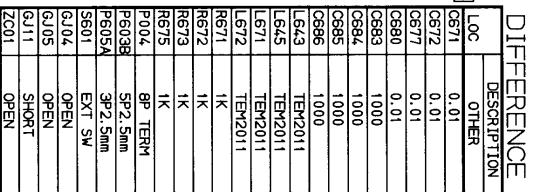
1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

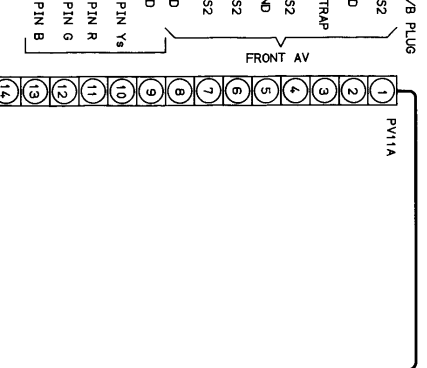
1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.

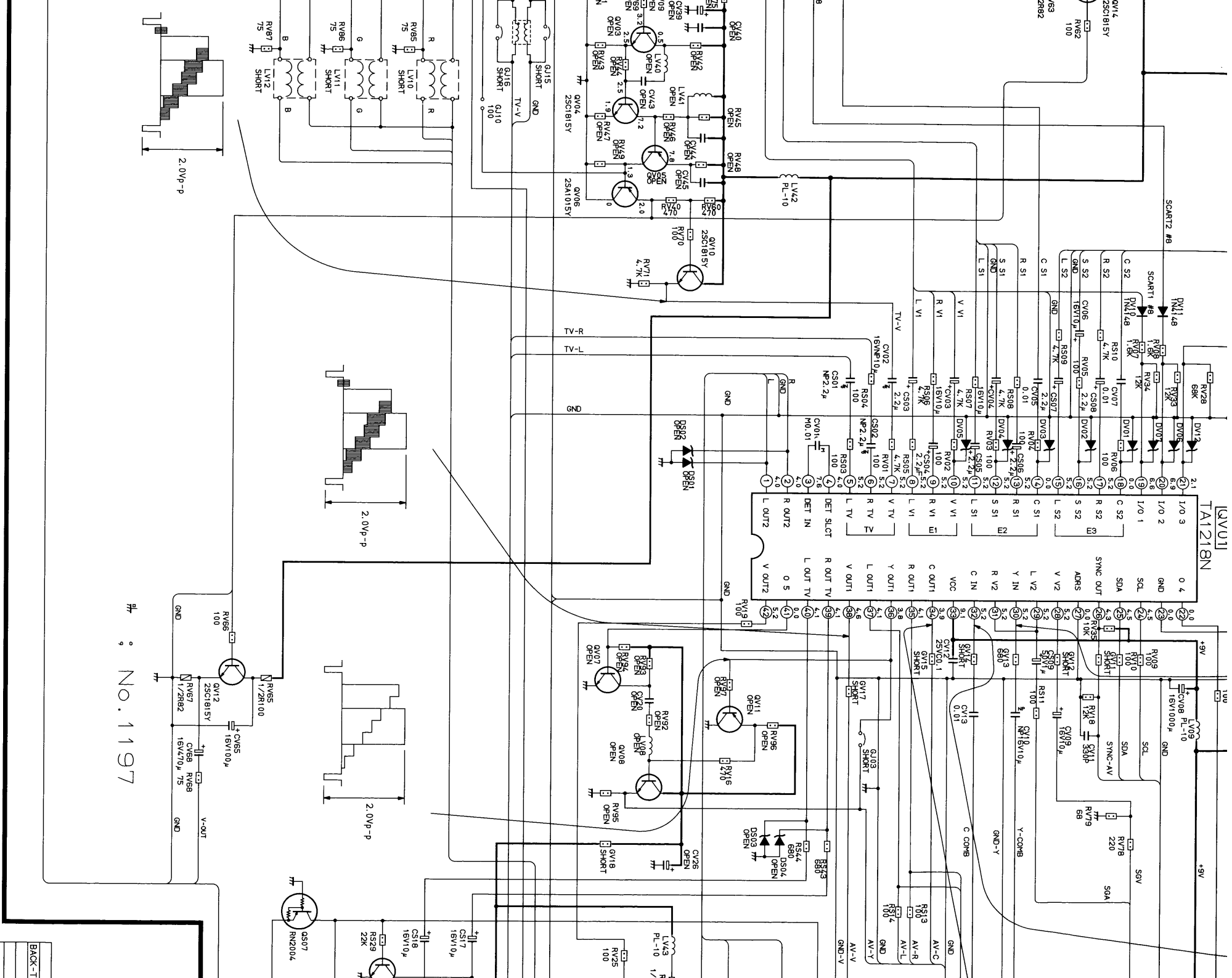


shown in ohm, $k=1,000, M=1,000,000$
the values more than 1 are expressed
in schematic, all capacitor values less than 1
are expressed in pF.
the values more than 1 in pF.
the values noted in schematic, all inductor
values more than 1 are expressed in
mH.
the values less than 1 in H.

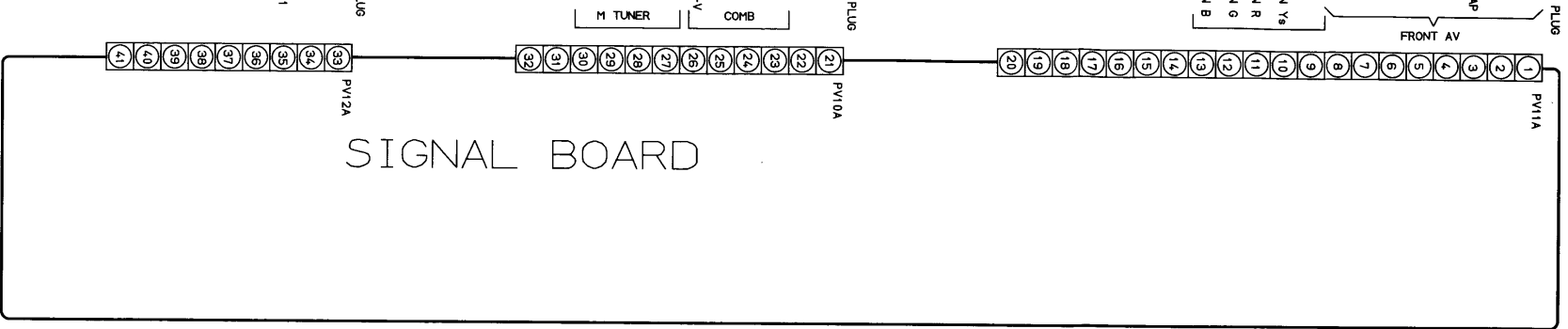


DIFFERENCE	
DESCRIPTION	
LOC	OTHER
G671	0.01
G672	0.01
G677	0.01
G680	0.01
G683	1000
G684	1000
G685	1000
G686	1000
G643	1000
L643	1000
L645	1000
L671	1000
L672	1000
L673	1000
L674	1000
L675	1000
L676	1000
L677	1000
L678	1000
L679	1000
L680	1000
L681	1000
L682	1000
L683	1000
L684	1000
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L702	1000
L703	1000
L704	1000
L705	1000
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L707	1000
L708	1000
L709	1000
L710	1000
L711	1000
L712	1000
L713	1000
L714	1000
L715	1000
L716	1000
L717	1000
L718	1000
L719	1000
L720	1000
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L722	1000
L723	1000
L724	1000
L725	1000
L726	1000
L727	1000
L728	1000
L729	1000
L730	1000
L731	1000
L732	1000
L733	1000
L734	1000
L735	1000
L736	1000
L737	1000
L738	1000
L739	1000
L740	1000
L741	1000
L742	1000
L743	1000
L744	1000
L745	1000
L746	1000
L747	1000
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L750	1000
L751	1000
L752	1000
L753	1000
L754	1000
L755	1000
L756	1000
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L759	1000
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L786	1000
L787	1000
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L790	1000
L791	1000
L792	1000
L793	1000
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L799	1000
L800	1000
L801	1000
L802	1000
L803	1000
L804	1000
L805	1000
L806	1000
L807	1000
L808	1000
L809	1000
L810	1000
L811	1000
L812	1000
L813	1000
L814	1000





No. 1197



10

11

12

28W8DB 4/6
PK2833

H

G

L

E

D

030-9825

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OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary $\pm 10\%$.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

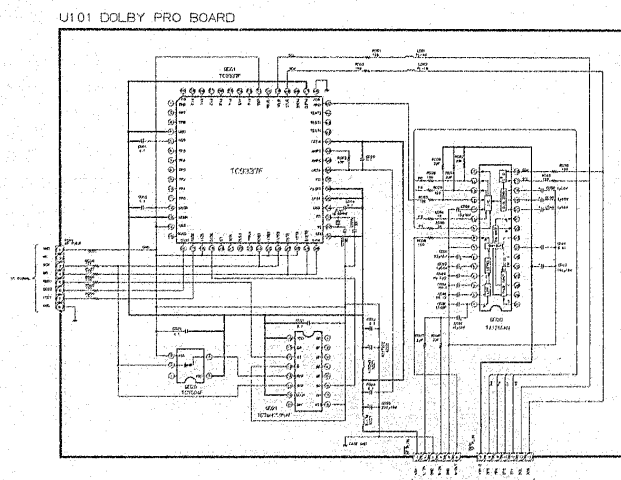
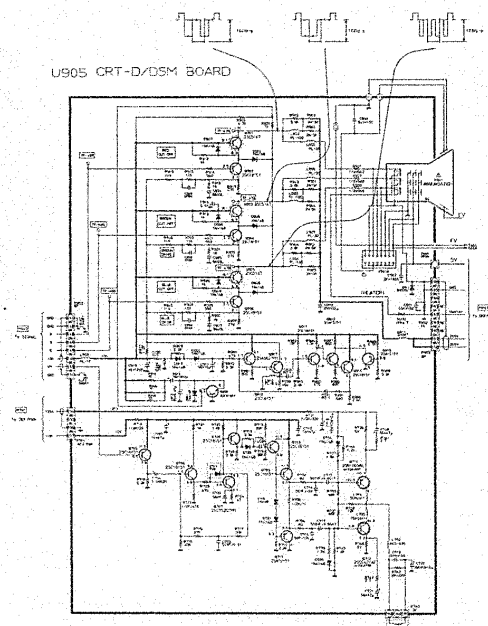
NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other value noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in μF .
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.



1. 100k	100k
2. 100k	100k
3. 100k	100k
4. 100k	100k
5. 100k	100k
6. 100k	100k
7. 100k	100k
8. 100k	100k
9. 100k	100k
10. 100k	100k
11. 100k	100k
12. 100k	100k
13. 100k	100k
14. 100k	100k
15. 100k	100k
16. 100k	100k

N OF VOLTAGES AND WAVEFORMS

ed with VTVM from point shown to chassis ground, line voltage 220
bar signal. Voltages reading may vary $\pm 20\%$.
ms are taken using a wide band oscilloscope and a low capacity probe.
are taken using a standard colour bar signal.
that CONTRAST and COLOUR controls are in mid position and
S control is almost in maximum position. Set other controls for best

NOTES:

1. D.C. resistance value of a principal transformer is shown gram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  : Solder links.

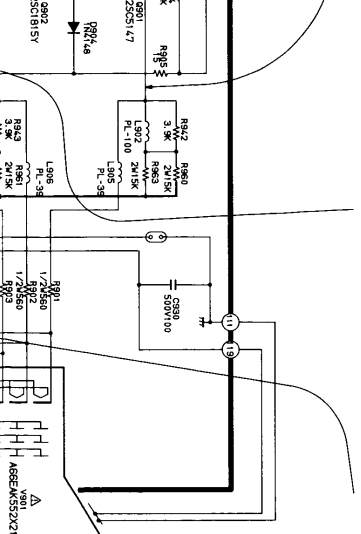
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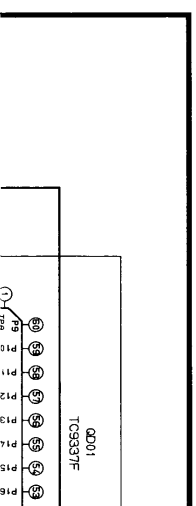
7

8

9



U101 DOLBY PRO BOARD



transformer is shown in this schematic diagram from the circuit.
 out notice.

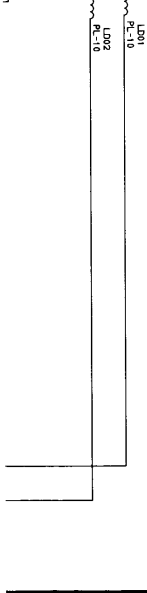
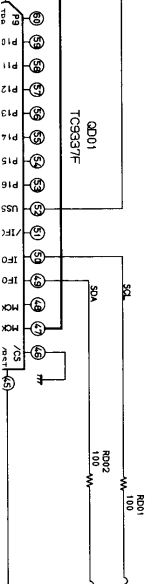
EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μ F and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μ H, and the values less than 1 in H.

10	11	12	13	14
----	----	----	----	----

BOARD



OR and INDUCTOR

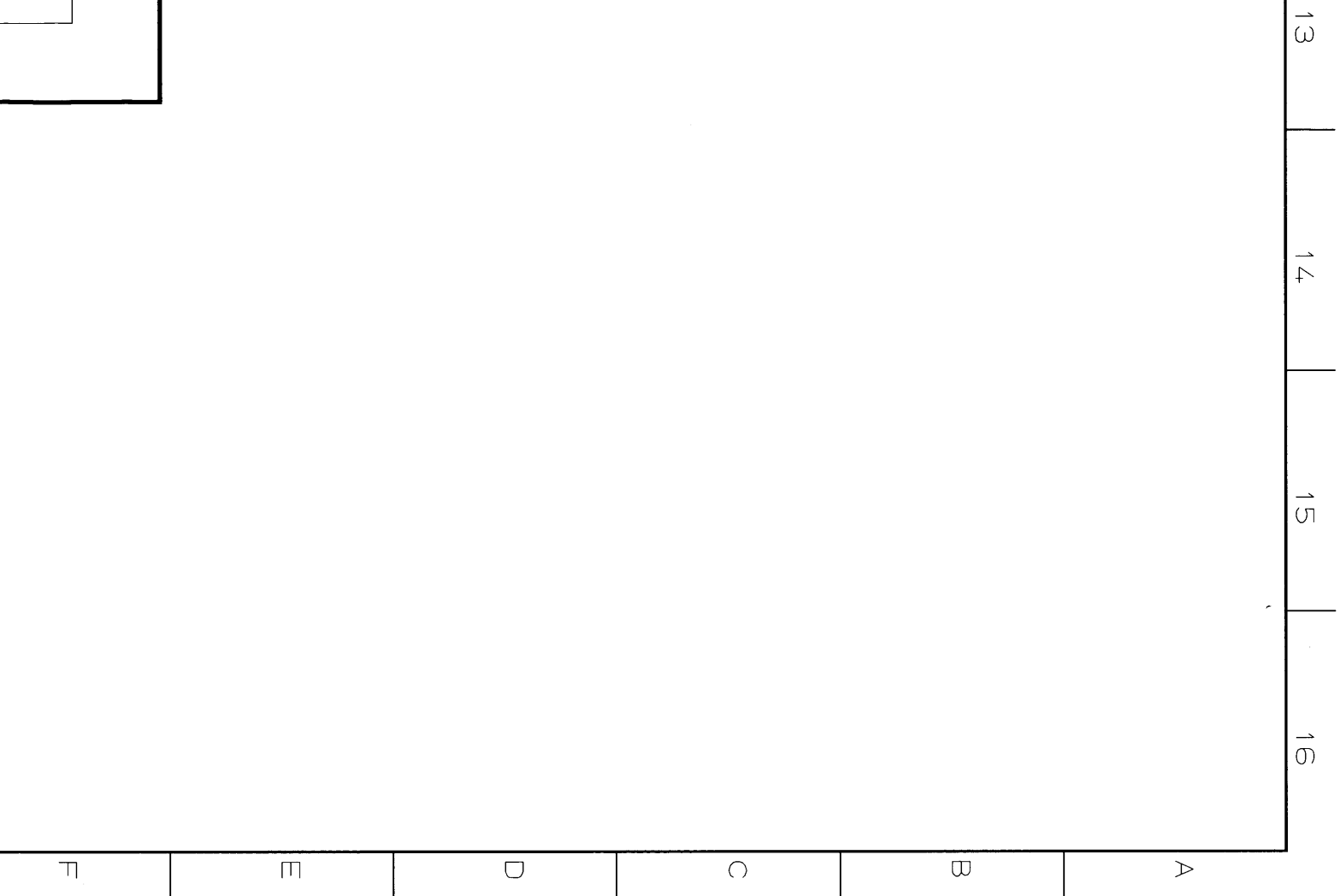
000, M=1,000,000

atic, all capacitor values less than 1 are expres-

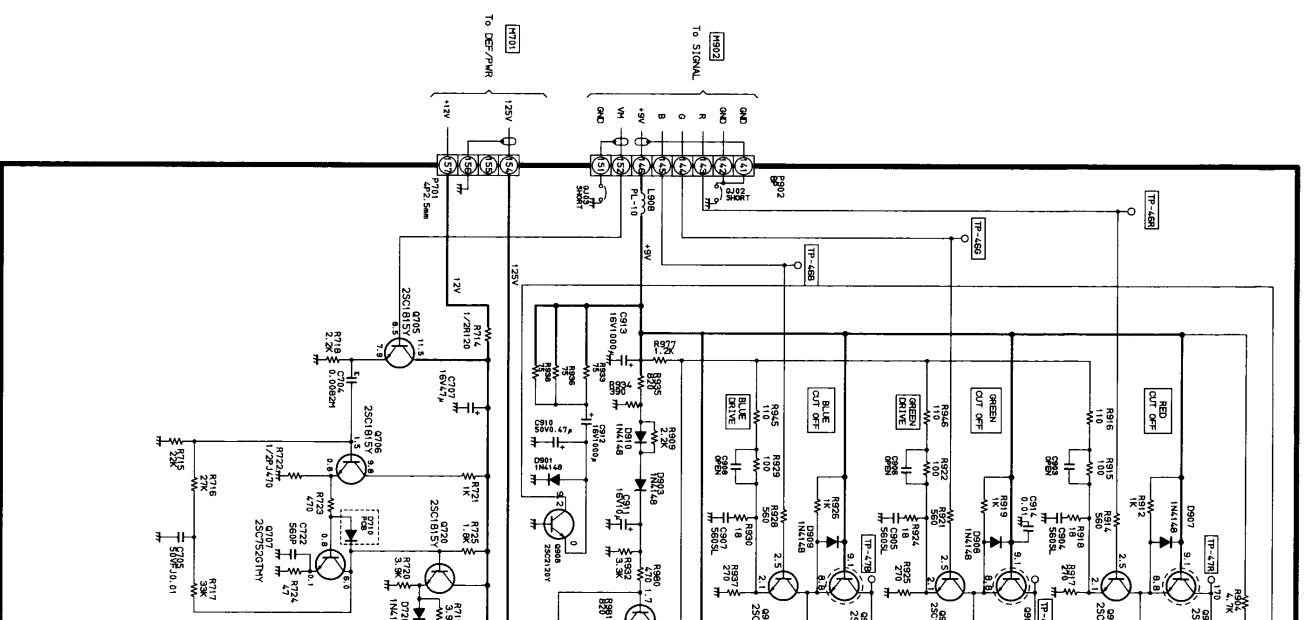
on 1 in pF.

atic, all inductor values more than 1 are expres-

1 in H.

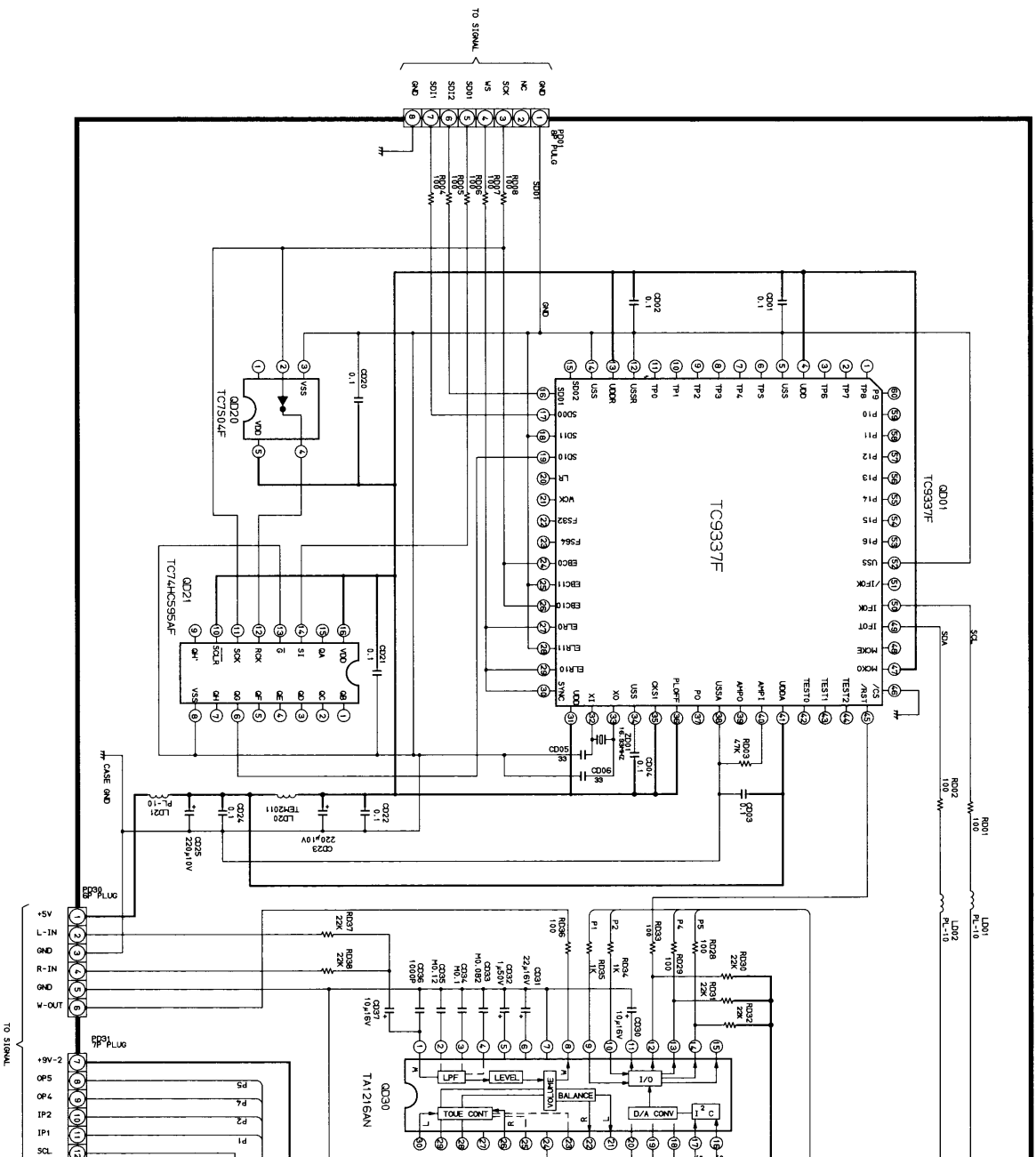


U905 CRT-D/DSM BOARD

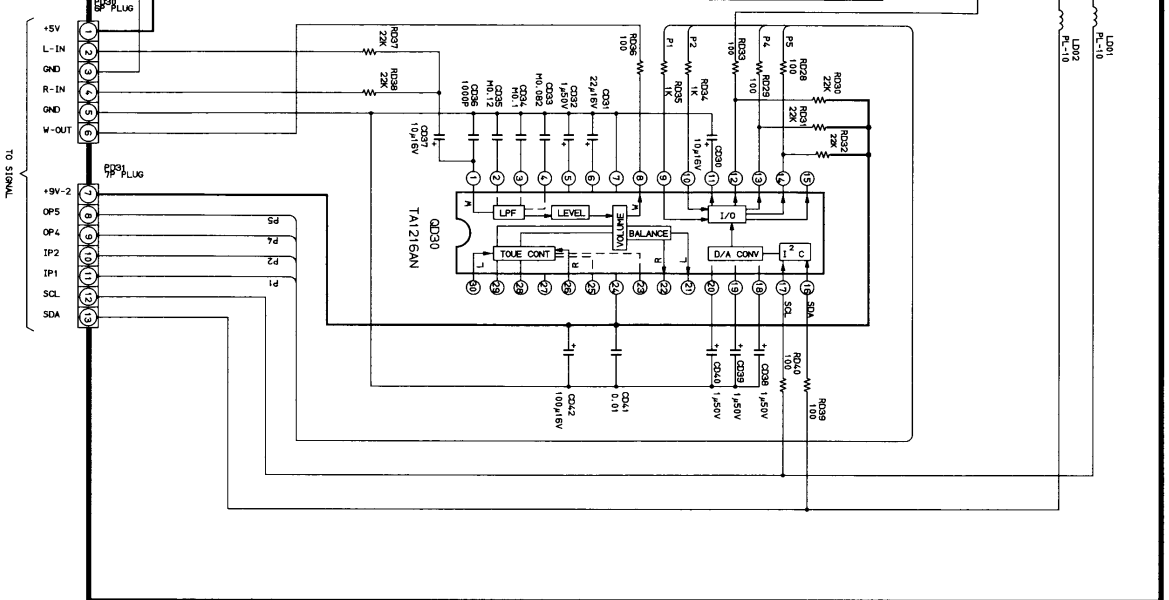




U101 DOLBY PRO BOARD



UNIT SN.	
CRT-D	SN.23706659
AC-3	SN.23706673



UNIT SN	
Q1-0	SN 237/6573
Q2-3	SN 237/6573

COPPER SIDE PARTS	
Q1	SN
Q2	SN
Q3	SN

12

13

14

15

16

28W8DB 5/6
PK2834

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary $\pm 20\%$.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3.  : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in pF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.



SCHEMATIC DIAGRAM

MODEL : 28W8DB

(6/6)

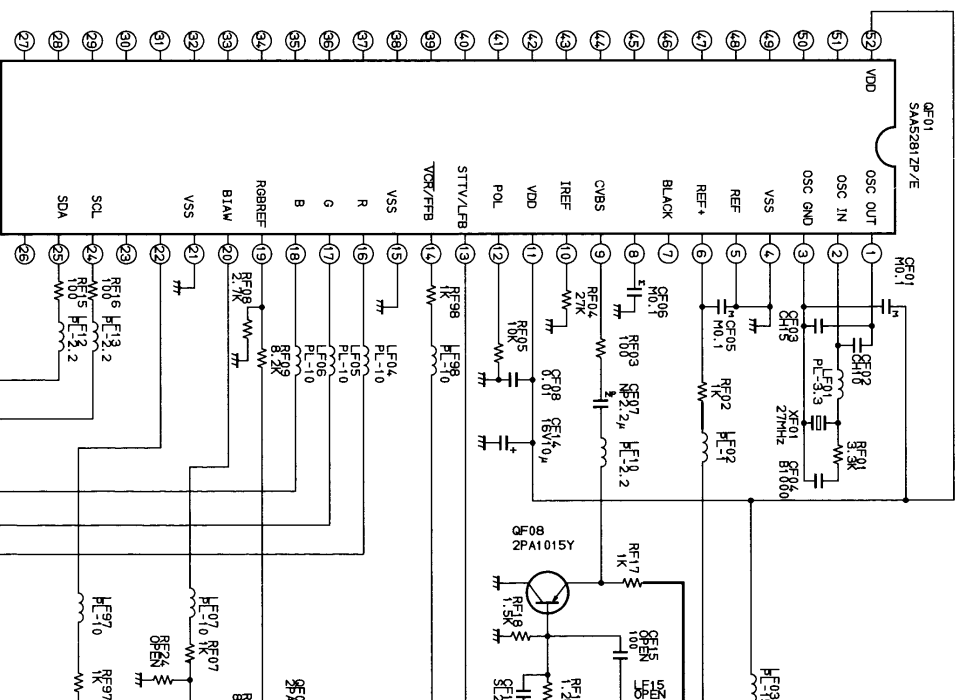
030-9825

CAUTION: The international hazard symbols " Δ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION

1. Voltages read in volts, colour
2. All waveforms
3. Waveforms
4. Make sure BRIGHTNESS picture.

U907 TEXT BOARD

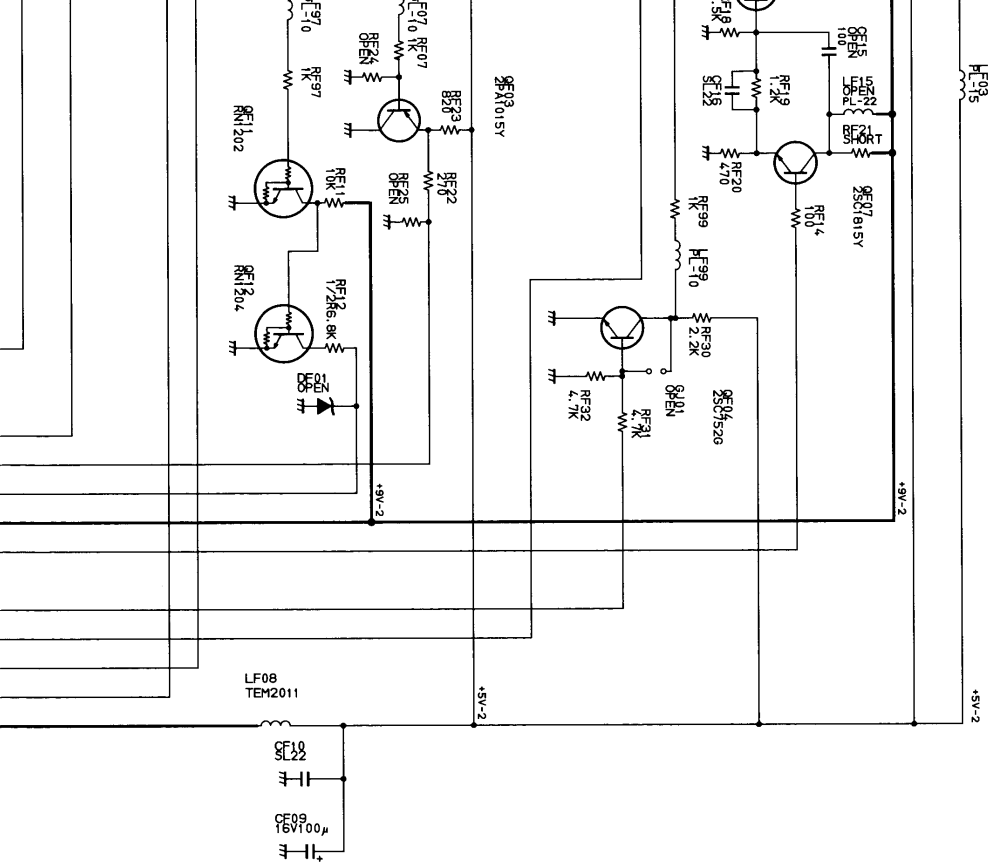


A vertical number line with tick marks at 4, 5, 6, and 7.

Waveforms are taken using a wide band oscilloscope and a low capacity probe. Waveforms are taken using a standard colour bar signal.

NOTES:

1. D.C. resistance value of a principal transformer gram. These are measured for separated from the
2. The circuits are subject to change without notice
3.  : Solder links.



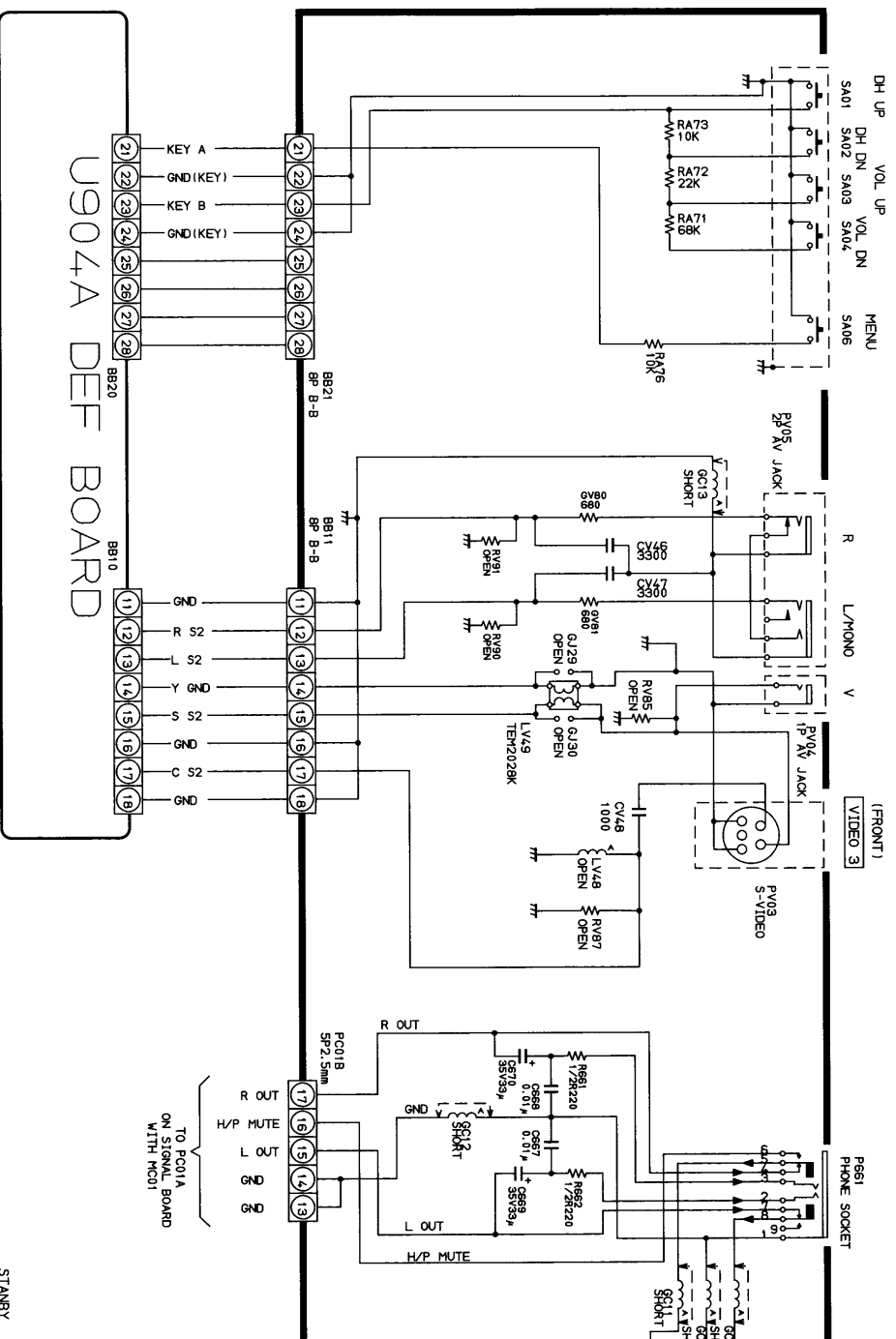
transformer is shown in this schematic diagram without notice.

EXPRESSION

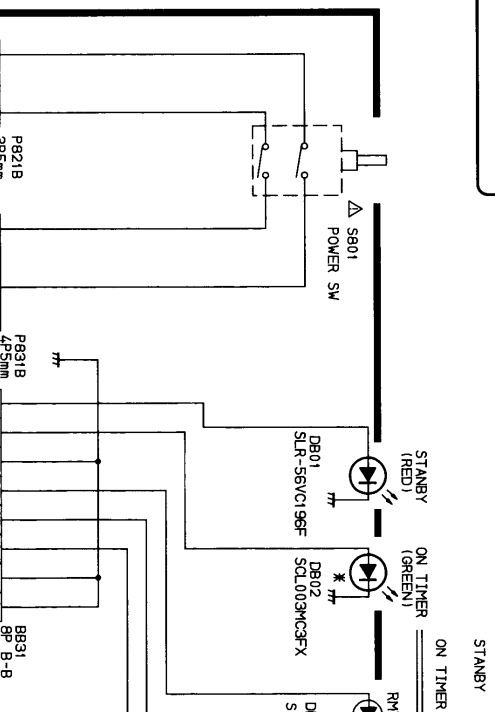
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, $k=1,000$, $M=1,000,000$
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF .
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H .

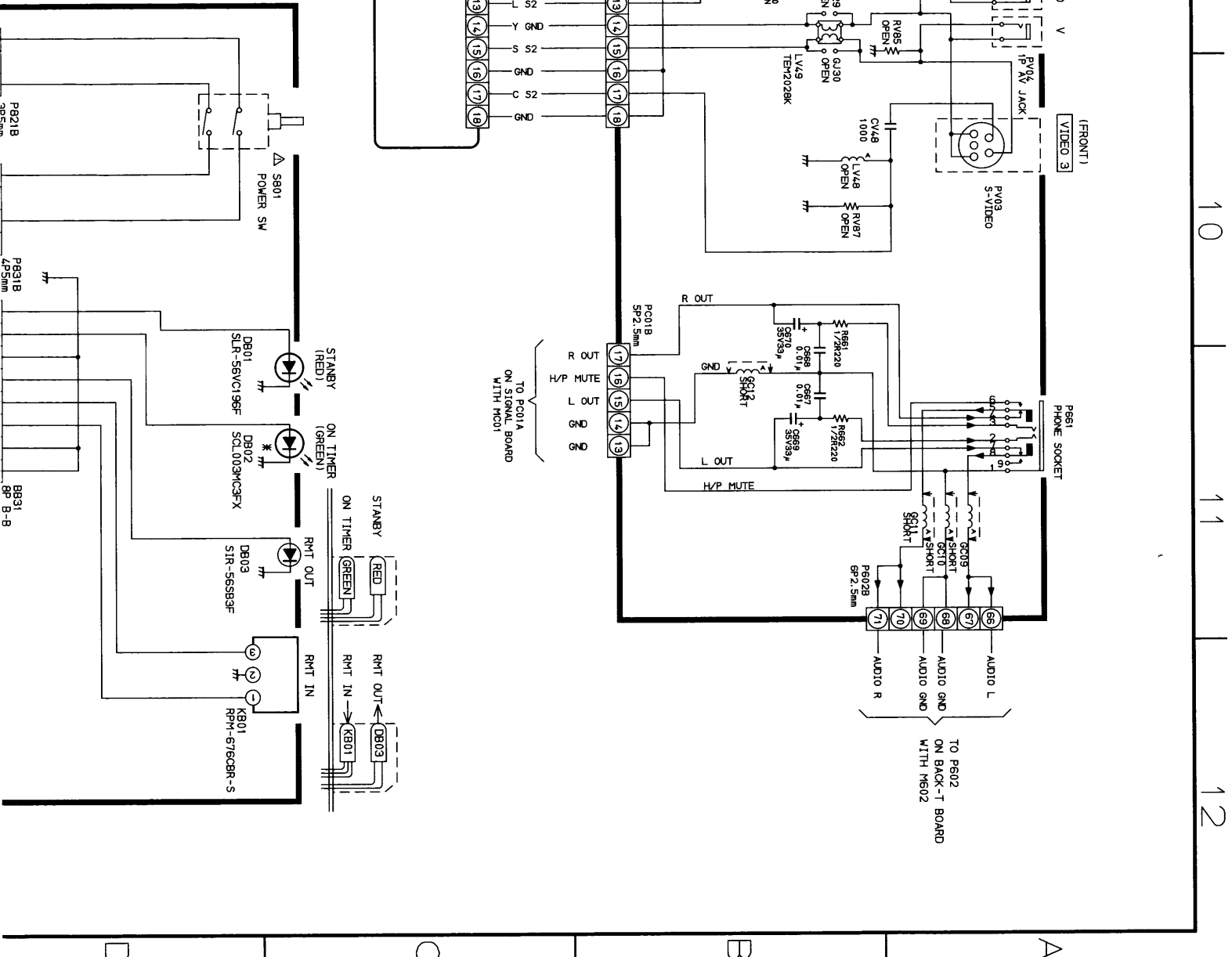
CONT-1 BOARD

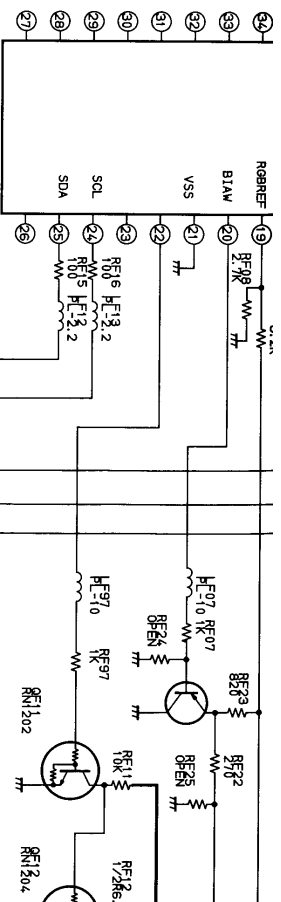


U904C CONT-2 BOARD



known in ohm, $k=1,000$, $M=1,000,000$ values noted in schematic, all capacitor values less than 1 are expressed in pF, the values more than 1 in pF, the values noted in schematic, all inductor values more than 1 are expressed in mH, the values less than 1 in H.





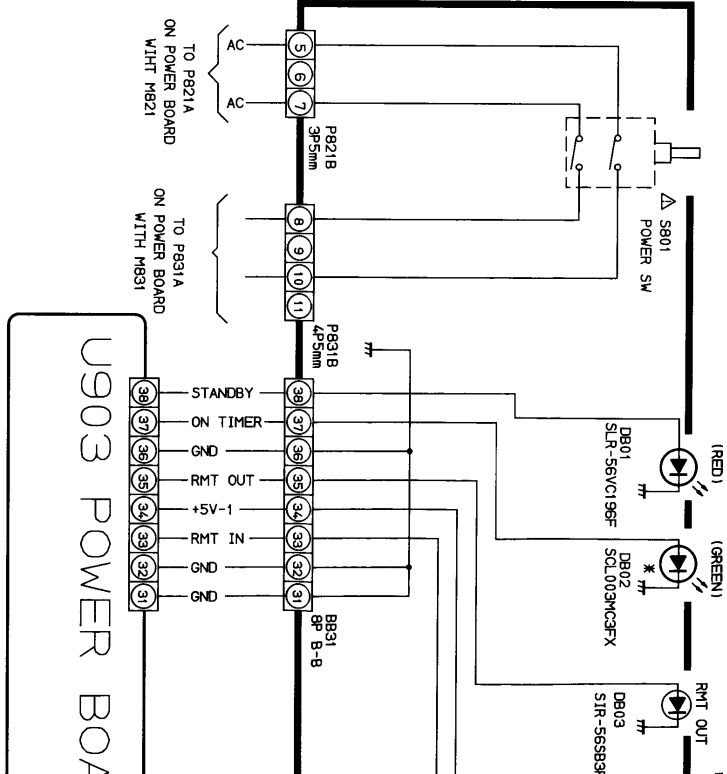
PE014
1SP B/B PLUG

TEXT R

D
E
F
G
H

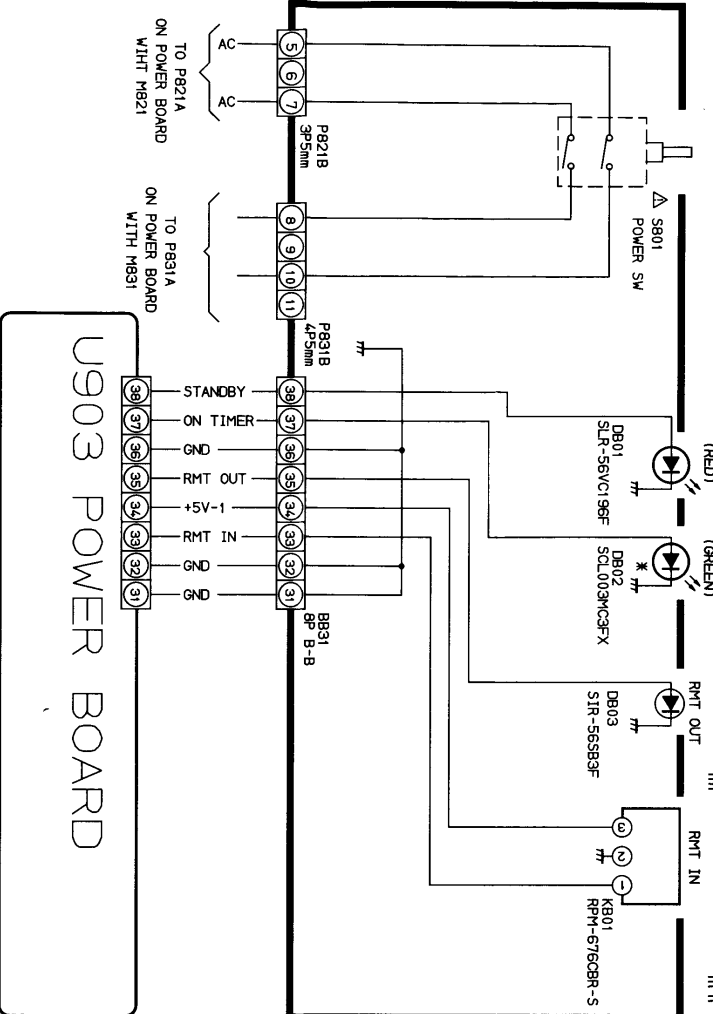
1 2 3

U904C
CONT-2 BOARD



UNIT SN.	
1-H/L	SN.23706625
D-COMB	SN.23706626
YUV-SW	SN.23706621
CONT-1	SN.23706623
CONT-2	SN.23706624

COPPER SIDE PARTS	
	SN.
	SN.
	SN.
	SN.
	SN.



10

11

12

28W8DB 6/6
PK2835